

20030520.qrp v02_n926.qrl.20030520

Date: Tue, 20 May 2003 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2926

QRP-L Digest 2926

Topics covered in this issue include:

- 1) [150960] Hall of Fame inductees??
by ARDUJENSKI@aol.com
- 2) [150961] Re: Scope manuals
by Tom Kleiner <tkleiner1@juno.com>
- 3) [150962] Re: Bad Dayton vs good Dayton
by "Lee Mairs" <lmairs@direcway.com>
- 4) [150963] Re: Hall of Fame inductees??
by Mike Czuhajewski <wa8mcq@comcast.net>
- 5) [150964] RE: Bad Dayton vs good Dayton
by "Emmerson Bigguns" <n8ie@woh.rr.com>
- 6) [150965] Re: Where are the Dayton Reports???
- by "John J. McDonough" <wb8rcr@arrl.net>
- 7) [150966] Dayton - from the vendor side of the table
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 8) [150967] Re: Hall of Fame inductees??
by Bill Vodall - WA7NWP <wa7nwp@jnos.org>
- 9) [150968] RE: FDIM Pix
by "John P. Cummins, Sr." <jpcummins@charter.net>
- 10) [150969] Dayton Icom Announcement
by "John J. McDonough" <wb8rcr@arrl.net>
- 11) [150970] NVIS Receiving cont.
by Kenneth Hoglund <hoglund@wfu.edu>
- 12) [150971] Re: Better start saving
by Steve.Lawrence@ITWFEG.COM
- 13) [150972] RE: Dayton - from the vendor side of the table
by "Emmerson Bigguns" <n8ie@woh.rr.com>
- 14) [150973] Why radio?
by psykey@okcforum.org (Jim Glover)
- 15) [150974] FS: Radioshack DX-398
by "Rod N0RC" <rod@n0rc.us>
- 16) [150975] Re: Better start saving
by "George, W5YR" <w5yr@att.net>
- 17) [150976] Re: Why radio?
by Brad Thompson <Brad.Thompson@valley.net>
- 18) [150977] Tuthill 2003 - first notice
by "Bob Hightower" <nk7m@extremezone.com>
- 19) [150978] Re: AT Sprint: 1st Day in the Field (and Mods)

- by Steve.Lawrence@ITWFEG.COM
- 20) [150979] FDIM Pictures...
by Jim Thiessen <jthiessen@videotron.ca>
 - 21) [150980] 2003 FDIM Chairman Initial Comments
by "Tom Dooley" <tdooley@attbi.com>
 - 22) [150981] Re: Hotwater handbook
by Mark Gilger <mgilger@brightdsl.net>
 - 23) [150982] Re: Mail Call
by "laura halliday" <marsgal42@hotmail.com>
 - 24) [150983] Re: Why radio?
by <igeq100@iupui.edu>
 - 25) [150984] paddle starting question
by Gary Lee <kb9zuv@arrl.net>
 - 26) [150985] AT Sprint: Crossmodulation finally solved!
by "Sverre Holm - LA3ZA" <la3za@qsl.net>
 - 27) [150986] Re: Better start saving
by Lee Jarvis <ljarvis@tampabay.rr.com>
 - 28) [150987] Michigan QRP Net
by kwiike@gdls.com
 - 29) [150988] Homebrew generator
by Patrick Gardella <pgardella@yahoo.com>
 - 30) [150989] Re: Experimental Methods in RF Design
by "w8diz" <w8diz@fpqrp.com>
 - 31) [150990] Re: Homebrew generator
by bob evinger <wd9eka@evinger.com>
 - 32) [150991] Re: NVIS Receiving cont.
by <stanw@toxso.com>
 - 33) [150992] Hall of Fame
by "Kenneth Evans" <w4du@attbi.com>
 - 34) [150993] Re: NVIS Receiving cont.
by "Walter AG5P" <walter@accessus.net>
 - 35) [150994] RE: Homebrew generator
by "Boulineau, Lee" <lee.boulineau@attws.com>
 - 36) [150995] Re: NVIS Receiving cont.
by "Michael Melland, W9WIS" <w9wis@charter.net>
 - 37) [150996] RE: Homebrew generator
by "Boulineau, Lee" <lee.boulineau@attws.com>
 - 38) [150997] FDIM Cheeshead Kudos
by "John P. Cummins, Sr." <jpcummins@charter.net>
 - 39) [150998] Re: Dayton - from the vendor side of the table
by "Brian Murrey - KB9BVN" <brian@iquest.net>
 - 40) [150999] Re: Hall of Fame
by "Brian Murrey - KB9BVN" <brian@iquest.net>
 - 41) [151000] Re: NVIS Receiving cont.
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
 - 42) [151001] Re: IF or Audio DSP filter
by "Bob Tellefsen" <n6wg@earthlink.net>
 - 43) [151002] Re: Better start saving

- by Caitlyn Martin <ku4qd@earthlink.net>
- 44) [151003] Re: Source for Tiny Tubes
by William R Colbert <w5xe@juno.com>
- 45) [151004] Re: Better start saving
by William R Colbert <w5xe@juno.com>
- 46) [151005] OT: New email address
by "John Harper AE5X" <john@ae5x.com>
- 47) [151006] Re: Better start saving
by steve.lawrence@itwfeg.com
- 48) [151007] Re: Homebrew generator
by "Mike Yetsko" <myetsko@insydesw.com>
- 49) [151008] Re: paddle starting question
by "Joe W2KJ" <w2kj@bellsouth.net>
- 50) [151009] Re: Homebrew generator
by "Lee Mairs" <lmairs@direcway.com>
- 51) [151010] Re: Better start saving
by "Lee Mairs" <lmairs@direcway.com>
- 52) [151011] Re: Better start saving
by listmember <listmember@comcast.net>
- 53) [151012] Re: Better start saving
by Lloyd Lachow <llachow@yahoo.com>
- 54) [151013] Re: [Re: Hall of Fame]
by Michael Goins <mgoins@usa.net>
- 55) [151014] Re: Homebrew generator
by bob evinger <wd9eka@evinger.com>
- 56) [151015] Re: Hotwater handbook
by "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
- 57) [151016] SWL Freq-Mite in an MFJ 9420 SSB Travel Radio
by Michael Babineau <michael.babineau@sympatico.ca>
- 58) [151017] Re: Better start saving
by "George, W5YR" <w5yr@att.net>
- 59) [151018] RE: Homebrew generator
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 60) [151019] RE: Better start saving
by "Boulineau, Lee" <lee.boulineau@attws.com>
- 61) [151020] Ahhh...to be young and single again.....
by "KXBill" <w7kxb@cox.net>
- 62) [151021] Re:Lawn mower generator
by "KXBill" <w7kxb@cox.net>
- 63) [151022] Re: Mail Call and Small Tubes
by George Gingell <k3tks@u1.abs.net>
- 64) [151023] Several Antenna Questions
by "Dennis Payton" <dpayton@fwi.com>
- 65) [151024] Tiny tubes & the birthplace of the proximity fuse
by "Rex Harper" <w1rex@megalink.net>
- 66) [151025] SMD soldering nirvana????
by "Tom" <kf4yyd@adelphia.net>
- 67) [151026] RE: Several Antenna Questions

by "Boulineau, Lee" <lee.boulineau@attws.com>
68) [151027] Re: Several Antenna Questions
by "Dave Sjolin" <sjolin@swbell.net>
69) [151028] Re: SMD soldering nirvana????
by David Hinerman <WD8CIV@worldnet.att.net>
70) [151029] RE: Several Antenna Questions
by "Boulineau, Lee" <lee.boulineau@attws.com>
71) [151030] AT Sprint mod parts
by Steven Weber <kd1jv@moose.ncia.net>
72) [151031] Tuner for DSW-II
by <tlogan7@cox.net>
73) [151032] Re: AT Sprint mod parts
by "n2cx" <n2cx@voicenet.com>
74) [151033] Re: Tuner for DSW-II
by "sslyon" <sslyon@megalink.net>

Date: Mon, 19 May 2003 18:50:44 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [150960] Hall of Fame inductees??
Message-ID: <77.112bddd0.2bfab9c4@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Were the QRP Hall of Fame inductees announced yet?

Alan KB7MBI in Woodinville, WA
FISTS 5702 Proud member of ARRL

--- --- --- --- DIT DIT

Date: Mon, 19 May 2003 23:21:29 GMT
From: Tom Kleiner <tkleiner1@juno.com>
To: qrp-l@lehigh.EDU
Subject: [150961] Re: Scope manuals
Message-ID: <20030519.192152.11038.42914@webmail15.nyc.unttd.com>
Content-Type: text/plain

speaking of which, I really could use a manual or schematic for a Leader LBO 522.
No reasonable price refused.

Tom, N9HWC

Date: Mon, 19 May 2003 19:50:35 -0400
From: "Lee Mairs" <lairs@direcway.com>
To: "Low Power Amateur Radio Discussion" <grp-1@Lehigh.EDU>
Subject: [150962] Re: Bad Dayton vs good Dayton
Message-ID: <03b401c31e61\$7535d8b0\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Now this is the sort of posting that should be censored out! It makes be
ravenously jealous to hear about all this fun. And I was stuck at home...
73 de Lee
km4yy/8

> I had a great bad day at Dayton!
> Friday I found a very clean Icom IC-551 for \$165.00, most of the others
> there were in the \$300+ range. Also found a 57 Handbook for a dear friend.
> I hooked the IC-551 up to a G5RV to test it out on Friday, worked great.
> While it was sitting there idling, I heard W2BSA calling CQ. The Boy
Scouts
> were camped out at Wright Patterson AFB that weekend so I got to have a
> great QSO with some of the nice young kids!
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> Saturday I got wet mostly. :-)
> But I did manage to get a nice little hand key from N1TP. Neat little
thing,
> machined from a solid block of aluminum and smooth as silk. Picked up a
nice
> 5/8 wave CB antenna for \$5, this will get cleaned up and converted into a
> nice 6M vertical.
>
> Sunday I got my cards checked out and now I'm in the DXCC club. :-)
> Also found 100' of RG8X and some connectors.
>
> In all my years at work, I have never had close to this much fun! And
> despite what was said on e-Ham, the bathrooms were pretty clean. LOL
>
> 72, oo
> Dan, N8IE
> FPgrp #-6, QRP-1 #1404, FISTS #4985
>
> -----Original Message-----
> From: owner-grp-1@Lehigh.EDU [mailto:owner-grp-1@Lehigh.EDU]On Behalf Of
> nilsbull@juno.com

> Sent: Monday, May 19, 2003 7:48 AM
> To: Low Power Amateur Radio Discussion
> Subject: Bad Dayton vs good Dayton
>
>
>
> Last night, after I finished rehabilitating a D-104 mic with a dead
element
> that I got out in the fleas, I had a Q with a guy runnin HF ssb mobile
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> around Knoxville, TN. We were commiserating about the rain all day
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> and most of the morning Sunday and he said: "Well, a bad day at Dayton is
> still better than a great day at work."
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> I had to agree.
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> But I still spent most of my time Saturday out in the fleas, looking for
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> four-pin Molex connector I needed to make a longer hose for my
> recently-acquired AH-4 auto tuner. That and heat shrink toobing and some
> RG-8x & some other stuff. Didn't find nawthin but the power cables &
other
> suches and thems was inside.
>
> So after I left the arena place Saturday, and on my way home, I stopped at
> Roger's and got 100 ft of RG-8x and same-same of some four-conductor
> shielded, the heat shrink and a couple other doodads. The antenna tuner
> control connector I found at a local RadioShack.com.
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> And I ordered an Arrow Antennas 6m beam. For which I do not have a tower,
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> Hope the rest of you had a bad day at Dayton. 'Cause it was way better 'n
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> Nils
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> usual self-aggrandising sig lines withheld . . .
>
> -----
> The best thing to hit the internet in years - Juno SpeedBand!
> Surf the web up to FIVE TIMES FASTER!
> Only \$14.95/ month - visit www.juno.com to sign up today!
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> Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/2003
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Date: Mon, 19 May 2003 20:04:45 -0400
From: Mike Czuhajewski <wa8mcq@comcast.net>
To: qrp-1@Lehigh.EDU
Cc: Mike Czuhajewski <wa8mcq@comcast.net>
Subject: [150963] Re: Hall of Fame inductees??
Message-ID: <000301c31e63\$6c17cac0\$6401a8c0@gambrl01.md.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I wasn't the one running the program this year (first time I wasn't) but I was one of the vote counters. I don't want to steal the thunder of W4DU, who did run it this time and who will probably be making a post on it shortly. However, until he does, here's a hint--

There were three of them, none a US citizen that I know of, although two

come to Dayton and other US hamfests often enough to qualify. Two speak the Queens English, while the third speaks English as a second language, perhaps even while he smokes those famous cigars that are not available in the US except on the black market.

73 and queue our pea DE WA8MCQ

Date: Mon, 19 May 2003 20:09:45 -0400
From: "Emmerson Bigguns" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [150964] RE: Bad Dayton vs good Dayton
Message-ID: <MMEDLKDLONJOAIGICDJACEBLEFAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
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Then I should not mention about the great deals to be found on batteries, solar panels, and the HUNDREDS of boat anchors there this year. he he he!

The awards banquet was very very great this year. I honestly don't remember the calls of the three gents inducted into the Hall OF Fame this year, but two were from Britain, and the third was a Ham in Cuba who has done more to get his fellow country men on the air, than most of us will ever do. Again, I'm sorry I don't remember the calls, I was soooo tired that I barely made it through the dinner.

As for homebrew, first and second place was won by two of my fellow Piggies for their fantastic Multi-Pig+ rigs designed by Diz, W8DIZ. Also, there were plenty of other nicely done kits, and keys there also.

72, oo
Dan, N8IE
FPqrp #-6, QRP-1 #1404, FISTS #4985

-----Original Message-----
From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Lee Mairs
Sent: Monday, May 19, 2003 7:51 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Bad Dayton vs good Dayton

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> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> nilsbull@juno.com
> Sent: Monday, May 19, 2003 7:48 AM
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Date: Mon, 19 May 2003 20:10:20 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Cc: <ki6ds@dph.dpol.net>
Subject: [150965] Re: Where are the Dayton Reports???
Message-ID: <[01fe01c31e64\\$35e3f2c0\\$010044c0@chartermi.net](mailto:01fe01c31e64$35e3f2c0$010044c0@chartermi.net)>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow Doug. I think we are all too shell-shocked by all that went on!

Of course it was great. The presentations were great, the building entries were great, the dreaded Ramada Inn was dreaded as always, it rained - plenty. All in all, a typical, great FDI. Well, one thing wasn't typical - the bus company went bankrupt 2 weeks before the show, and on Friday morning there were all sorts of rumors about what was going on and where to catch a bus. It turned out there was only one place, and that

meant astonishingly long lines. But the pinch hitting bus outfit, brought in from Indianapolis, did an amazing job, and the waits weren't anywhere near as long as they looked.

HOF inductees were Arnie Coro, Tony Fishpool, and Graham Firth. Jim Kortge made a great little speech about Arnie in his (obvious) absence. Dick Pascoe did the honors for Tony and Graham.

I'm afraid I didn't get all the building contest winners straight. There were some amazing rigs (I suppose that is getting to be the norm). There was a 2N2/40 beautifully built into an aircraft radio chassis, there was a Multi-Pig+ built on top of a roasting pan, an amp embedded into a computer cooling fan ... you had to be there to see it. There was a very nice 2N2/30, I'm sure I'm forgetting a bunch.

Icom was not only at the vendor night, but they were at the author social and outside the meeting room after the seminar. Of course they were showing off the 703, but I think the 7800 made more of a splash (in spite of the fact that none of us will be able to afford it!) An Icom rep did admit that the announcement of the K2 was a shock to them when they saw the specs ... I suspect that had something to do with the 40 dB TOI. Obviously, the 703 is an entirely different rig than a K2, and Icom realizes that it's a different segment, but at the arena they did display it in a backpack.

SGC was also at the vendor night - it was good to see the larger manufacturers playing attention. They had a more extensive display than Icom whose presence was decidedly low key - especially when compared to the usual circus they put on in the arena. Still, it was good to be able to chat with some Icom folks. SGC didn't have any QRP specific products, but the rep at least understood where there products have strengths and weaknesses for QRP use. I think folks paid the most attention to their DSP which is intended to be part of your homebrew rig.

One of the prizes was a DSW-II kit, and there was another all built there to drool over, even though Dave wasn't there. That is one sweet looking little radio. Everyone is chomping at the bit to get their hands on one.

Yours truly bought a KBT-1, and won a Super Antennas portable dipole, *and* is hanging up the old keyboard next month, so I suspect there's some outdoor operating waiting for me in June.

Maybe the biggest downside is that there was too much -- some events overlapped, and there was just too much for us old farts to keep up with! As usual, we dragged home Sunday, totally worn out, badly needing to get back to work so we could get some rest.

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

----- Original Message -----

From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 19, 2003 5:48 PM
Subject: Where are the Dayton Reports???

> Guys, we used to get tons of reports of all the things that went on at
> Dayton. Where are they this year?? Who made the Hall of Fame? What
about
> the talks, any new kits, any neat homebrew projects? Come on guys, we
want
> to know what happened. There are no ulterior or behind the scenes reasons
> for this post other than I am curious as to how it went, what happened,
etc.
> I am sure a lot of other guys are too!! Post your experiences, we want to
> read them. Other than Nils, not much meat so far. 72, Doug
>

Date: Mon, 19 May 2003 20:26:29 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-l@Lehigh.EDU
Subject: [150966] Dayton - from the vendor side of the table
Message-ID: <200305200023.h4K0N2l8026026@hagus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Very briefly -

I only sat in on part of one FDI paper - it was excellent - I missed the rest because I was setting up the booth. I understand about 1/3 of the attendees were there for the first time.

I think I had a good weekend! I was in a double booth in the main arena, and was busy enough that I only got out of the booth twice each of the three days - each time for a quick trip to the mens room - they were relatively clean by the way!

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price (I did not really want to sell 'em!) The new HW-8 handbook moved quickly. I have a good stock if anyone wants one. Completely sold out of TiCK keyers. DK9SQ masts sold well all weekend, although none moved at vendors night.

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I never even got to look out the door at the flea market, so I can't tell you how it looked, but I can tell you I know when it began to rain - the isles immediately plugged up!

Someone else will have to fill in the details on the rest of FDM. I was too busy / too tired to catch it all. It must have been good ;>)

73 - Bill - N8ET
Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Mon, 19 May 2003 17:28:49 -0700 (PDT)
From: Bill Vodall - WA7NWP <wa7nwp@jnos.org>
To: <ARDUJENSKI@aol.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [150967] Re: Hall of Fame inductees??
Message-ID: <Pine.LNX.4.33.0305191727280.25929-1000000@jnos.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Alan KB7MBI in Woodinville, WA

Hey Alan, How close am I to you today?

<http://www.jnos.org/cgi-bin/ewefind.cgi?call=WA7NWP-9&map=local>

I'm working at a friends place.

73,

Bill - WA7NWP

Date: Mon, 19 May 2003 20:38:37 -0400
From: "John P. Cummins, Sr." <jpcummins@charter.net>
To: qrp-l@lehigh.edu
Subject: [150968] RE: FDI M Pix
Message-ID: <3EC9790D.9060106@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Thanks.. you had a bunch of winners out there. I got a number of them to put in the NoGa report.

Pickett, AD4S

Date: Mon, 19 May 2003 20:54:25 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [150969] Dayton Icom Announcement
Message-ID: <02a601c31e6a\$5d593580\$010044c0@chartermi.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

This is slightly off-topic, but I'm sure this rig is going to take a beating on this list, and even though I will NEVER buy one, I thought it fair to come to Icom's defense a bit - pre-emptively.

Icom pre-announced a new high end (very high end) rig. This thing is a

monster. The Icom rep who brought it out to show could barely carry the thing the 20 feet to the pedestal it was displayed on.

Clearly, Icom wanted to have the best receiver around in their lineup, and they had the place flooded with 40 dB TOI buttons and tee shirts well before the announcement. They made a big deal of the fact that this was an entirely different league than is typical of ham gear.

The rig has 2 entire receivers, so you can simultaneously monitor 2 bands, or scan around while waiting for your chance to dive into a pileup. This looks to be a serious contesters rig. A digital voice recorder is built in, as is RTTY and PSK.

Milling around through various vendor displays, I overheard 2 comments over and over. One, a lot of hams are getting old, and prefer rigs with large, visible displays. The display on the 7800 is as big as an entire K2. If that's not enough, the 7800 has an RGB output so you can directly plug in your 21 inch monitor.

Second, I heard over and over how people like to have lots of buttons so they can go directly to the needed function rather than fishing through a bunch of menus. My wife sat down with the brochure and counted 99 controls on the front of this beast. (I didn't go back and check her math, that sounds like a lot, but there were a LOT of buttons and knobs!)

Icom didn't announce a price, but the Icom rep who came to FDIIM indicated that you should be thinking more along the lines of the cost of a college education than a K2. Somebody kept pressing him with numbers and he did indicate it would be well in excess of \$7K.

So this isn't a rig for backpackers, and few of us will be able to afford one of these, but I have to give Icom credit for paying attention to what it's customers are saying.

--

72/73 de WB8RCR <http://www.qsl.net/wb8rcr>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Mon, 19 May 2003 20:54:59 -0400
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [150970] NVIS Receiving cont.
Message-ID: <3EC97CE3.780A446B@wfu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Been messing with a NVIS set-up for the last several days, and the results are interesting (meaning I'm not sure what to do with it).

Definitely different than the elevated dipole: been working with 20m, have a NVIS dipole at 10 feet above ground oriented SE to NW. I've been comparing reception with a long-wire swl antenna and a 20m dipole up 36 feet, monitored with a Lowe HF-150. Receiving, and transmitting, into the NVIS with a K'wood TS-180S @ 10 watts.

This afternoon was typical--heard some NY/NJ stations, along with multiple western states. On 20m I usually don't hear NY/NJ. Also DX such as Croatia and Ukraine. Called cq number of times with no replies. Switching to ssb, I paralleled receiving with the HF-150 (no real cw capability for an otherwise great receiver). For example, the high antlers had a solid s-9 on WB7EXB in Sparks, NV but the NVIS was totally deaf--couldn't hear a thing. Also called cq bunches of times, with no replies.

So here's my conclusion: NVIS hears close-in scatter, and stronger distant stations. But working closer-in stations is also a function of the other station's antenna system and its ability to receive NVIS signals. Guess so many folks are 'optimized' for covering vast distances, they can't hear my meager 10 watt scatter.

So, anyone within NVIS-shot of central North Carolina want to try a NVIS to NVIS qrp qso?

73

Ken KG4FGC

Date: Mon, 19 May 2003 21:41:44 -0400
From: Steve.Lawrence@ITWFEG.COM
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [150971] Re: Better start saving
Message-ID: <0F939EBC01.D59CEB1B-0N85256D2B.007F6E05-85256D2C.00094FD1@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

They were showing a prototype of this at the Dayton Hamvention in the Icom booth -- under plastic case -- you couldn't tweak the knobs!

I thought I heard "8 grand" yes, \$8,000 - for one... at which point I glazed over and walked on. Could anyone confirm the expected price?

73,
Steve
aa8af

Alex <kr1st@amsat.org>
Sent by: owner-qrp-1@Lehigh.EDU
05/19/2003 10:24 AM
Please respond to kr1st

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc:
Subject: Better start saving

Slick:

http://www.icom.co.jp/world/info/ic-7800/IC-7800_pre-release.pdf

73,
--Alex KR1ST

Date: Mon, 19 May 2003 21:46:07 -0400
From: "Emmerson Bigguns" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [150972] RE: Dayton - from the vendor side of the table
Message-ID: <MMEDLKDLONJOAIGICDJAGEBNEFAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

The nice food served at Vendors night was courtesy of Nancy and the FISTS club.

72, oo
Dan, N8IE
FPqrp #-6, QRP-1 #1404, FISTS #4985

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Bill Kelsey - N8ET - Kanga US
Sent: Monday, May 19, 2003 4:31 PM
To: Low Power Amateur Radio Discussion
Subject: Dayton - from the vendor side of the table

Very briefly -

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I think I had a good weekend! I was in a double booth in the main arena, and was busy enough that I only got out of the booth twice each of the three days - each time for a quick trip to the mens room - they were relatively clean by the way!

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given up trying to make and SWR bridge with them - couldn't find a toroid big enough!

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Someone else will have to fill in the details on the rest of FDIM. I was too busy / too tired to catch it all. It must have been good ;>)

73 - Bill - N8ET
Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/2003

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/2003

Date: Mon, 19 May 2003 21:04:09 -0500 (CDT)
From: psykey@okcforum.org (Jim Glover)
To: qrp-l@lehigh.edu
Subject: [150973] Why radio?
Message-ID: <20030520020409.6C812AFD58@mail.okcforum.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For me, the answer to "why radio?" is multi-faceted. In fact, the multi-faceted aspect of amateur radio is itself an important part of the attraction for me, but aside from that, the reasons why I like radio come from various angles, and focus together where the soldering iron meets the antenna, straight key, microphone, and tuning knob--in my ham shack.

Commercial services with similar capabilities do not compete with my passion for radio because, for me, there is no substitute for being

able to do it myself. Cell phones work only if the cell phone service provider chooses to continue to maintain the vast infrastructure required, the governments concerned choose to continue to authorize cell phone service, and I continue to pay my cell phone bill month after month. That can't compare with knowing that if I manage to put a station on the air, and someone somewhere else manages to do the same thing, we can communicate without any infrastructure required.

Since the age of 8 or 9, I've been fascinated with how electrical and electronic things work, and have enjoyed tinkering with them. This fascination has blended beautifully with my passion for music, and the urge to communicate with and understand others. It was first in radio that I discovered the ability to combine my interests in electronics, music reproduction, and communication with others.

By the age of 10 or 11 or so, I had begun to spend a lot of time listening to radio broadcasts. When I was about 13, and found a shortwave receiver at a yard sale, I experienced tremendous thrill at the discovery that radio signals of all sorts could be heard from all around the world. As entertaining as TV might be, it has never, for me, offered that same compelling mystique associated with listening to a radio station and first wondering where it might be, and then often, listening on knowing that it came from somewhere at least moderately, and perhaps even exotically, far away.

And what could possibly compare with knowing that once someone had transmitted that radio signal, it was there for the taking, if only I could manage the combination of equipment, skill, and patience required to capture it? What could possibly compare with knowing that a radio station I had assembled, and one another ham had assembled, enabled us to communicate without anyone else's intervention required? It's one thing to tinker with some electronics and end up with a battery charger, thermometer, burglar alarm, intercom or whatnot, but it's quite another to indulge in electronics tinkering that pays off with the ability to listen to people and music from all over the world, or perhaps, even converse with them!

If ever I'm in danger of getting bored with those fundamental thrills, there are still a world of challenges with fascinating payoffs in the amateur radio arena. Moonbounce and satellites offer us the chance to participate in communicating through space. Traffic nets, ARES, and, well, really, more possibilities than I can mention off the top of my head offer us the opportunity to be useful in valuable ways by providing our communication skills to the public when they're needed most. Digital communications offer us the opportunity to combine an interest in computers with our radio hobby. Nets allow us to pass the time with others who share various interests, in and out of the radio hobby. The spattering of ham bands all up and down the radio spectrum offers

us a chance to experiment with several different ways of reaching the same communication goal. Propagation is a rich science in its own right, and we have the tools at our disposal to dabble in it directly. Time and effort invested in helping others discover the joys we've found in this wonderful hobby over the years can prove richly rewarding for all involved.

It seems difficult to fathom that interest in amateur radio must depend on whether it's the easiest or cheapest means to achieve some communication objective. I know that we've always had hams who were drawn to our hobby not so much for the sake of a hobby, as for the convenience (or necessity) of having independent communication capabilities. I believe that some of those people will continue to find amateur radio uniquely useful. For most of us, however, it's a genuine fascination with radio communications, electronics, or if we're lucky, both, that draws us to this wonderful hobby. Alas, in this day and age, there is stiff competition for the minds and hearts of those who find technology fascinating, for computers and the 'net are readily available.

Perhaps if we're going to ask, "Why radio?" we should focus on why we might choose radio/electronics over other technological pursuits, rather than why we might choose amateur radio over commercially available communications systems.

73,
Jim WB5UDE

Date: Mon, 19 May 2003 20:06:54 -0600
From: "Rod N0RC" <rod@n0rc.us>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [150974] FS: Radioshack DX-398
Message-ID: <003601c31e74\$7cb32260\$6401a8c0@Sherman>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Excellent condition, about 1 year old, complete with all accessories supplied by RS: carrying case & instruction sheet.

Plus these extras:

- o Radioshack 273-1758 6v, 300mA AC adaptor
- o QTY 4 USED RS 1100 mA NiMH
 (maintained well with Maha charger)

\$175 shipped CONUS

73 Rod, N0RC

Date: Mon, 19 May 2003 21:45:22 -0500
From: "George, W5YR" <w5yr@att.net>
To: <Steve.Lawrence@ITWFEG.COM>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [150975] Re: Better start saving
Message-ID: <0b5b01c31e79\$dd239a80\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Probably on the low side by quite a bit . . .

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

----- Original Message -----
From: <Steve.Lawrence@ITWFEG.COM>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 19, 2003 8:41 PM
Subject: Re: Better start saving

> They were showing a prototype of this at the Dayton Hamvention in the Icom
> booth -- under plastic case -- you couldn't tweak the knobs!
>
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> glazed over and walked on. Could anyone confirm the expected price?
>
> 73,
> Steve
> aa8af

Date: Mon, 19 May 2003 23:00:03 -0400
From: Brad Thompson <Brad.Thompson@valley.net>
To: psykey@okcforum.org,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [150976] Re: Why radio?
Message-ID: <5.0.2.1.2.20030519225035.02068200@pop3.norton.antivirus>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:04 PM 05/19/2003 -0500, Jim Glover wrote:
>For me, the answer to "why radio?" is multi-faceted....

<Much well-written and interesting commentary snipped, but please read Jim's original message>

>Perhaps if we're going to ask, "Why radio?" we should focus on why
>we might choose radio/electronics over other technological pursuits,
>rather than why we might choose amateur radio over commercially available
>communications systems.

Hello--

My hunch is that it had something to do with the Cold War and its emphasis on technology.
When Sputnik reached orbit, the collective shock to the U.S.' educational system launched a wave of emphasis on the "hard sciences"-- anyone remember PSSC physics as taught in high school?

Suddenly, electronics technology was going to save the nation, recapture the lead in the space race, and replace "better living through chemistry" with "better living through electronics".

Amateur Radio offered many of us our first exposure to what promised to be a long and interesting career, pickin' up electrons and layin' down PC-board tracks. Today, I get a queasy feeling when someone remarks that their child (usually male) is "good with computers", and upon questioning, "good" translates to "enhanced manual dexterity applied to racking up high kill rates in Quake". I surely wish that the kids would get curious

about what's going
on inside the box.

73--
Brad AA1IP

Date: Mon, 19 May 2003 20:09:06 -0700
From: "Bob Hightower" <nk7m@extremezone.com>
To: <qrp-1@lehigh.edu>, <azqrp@extremezone.com>
Cc: <ke7qf@msn.com>
Subject: [150977] Tuthill 2003 - first notice
Message-ID: <000a01c31e7d\$2e3ef8d0\$794998d0@Bobs>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable

We're just about set for the 2003 QRP gathering at Ft Tuthill, AZ, (July 25, 26 and 27) and have some great speakers lined up. We have the group campground again this year, but there is no change in the facilities, i.e., there ain't none. We will provide Port-a-johns, tho.

Also as usual, there will be the Saturday night cookout (bring your own meat), with the rest of the stuff provided by the ScQRPions. And, the now normal Saturday and Sunday morning pancake breakfast. For those that can't, or won't do pancakes, bring your egg beaters or whatever and we'll fix 'em for you.=20

There's no building contest per se, but a special building event (see below for the kit) will be provided for some lucky attendees. Just to keep the suspense level up, details won't be provided until later on, but as a hint, a lucky few will be drawn to take part in this free event.=20

Jim Duffey, KK6MC/5, sometimes best know as "Dr. Megacycle", once again will regale us with his in-depth knowledge on a topic called "SWR - What do We Care?". This should prove to be both very interesting and entertaining, as any of you who have heard him will agree.

QRP and backpacking is always a topic of interest, and Dr Bob Armstrong, N7XJ, a contributing editor to the ARS Sojourner, will speak on that. Bob is a country doctor living and practicing in Manti, UT, and has been an enthusiastic outdoorsman since childhood, active in portable and outdoor radio operations for over 30 years.

Ron Sparks, AG5RS, will cover antenna modeling, a subject which does us all some good, particularly with some of the modeling software now available. This is surely to be a good session, benefiting all.

The ubiquitous Dan Tayloe, N7VE, will talk on Class E transmitters, and we will have a new one available at Tuthill for purchase, with a lucky few able to build one on site at no cost. More on that later.

We're waiting to get confirmation from a couple of additional speakers, and, if obtained, will post information about them later on.

Oh, the transmitter. Jerry Haigwood, W5JH, has designed what is being called the AZ ScQRPion Transmitter Model AZSX-303E. What all that means is beyond me, but a brief description follows:

This is a VXO controlled transmitter of universal design, and can be built for either 40, 30 or 20 meters, with 3 to 4 watts output at 12.5 VDC (battery voltage). It incorporates a Class E final design using MOSFETs with efficiency in the range of 85-90% on 40/30 meters, and 70-75% on 20.

Typical current draw is .35 amps at 12.5 volts. QSK is built in, as well as receiver muting.

The kit includes an etched and solder coated PCB, and uses leaded parts Manhattan style...no pads to cut or glue on the board, it's all 'built in'. There are no SMT parts for us old fogies with poor eyesight to fiddle with. It should take about 3-4 hours to build. An accessory kit that includes all connectors and case, as well as a panel layout is in the works.

Pictures of the kit are available at
<http://www.swlink.net/~w5jh/azsx303e.htm>

The kit will be available for ordering in the near future, so look for the announcement.

Hope to see many of you there, and stay tuned for more details and information to follow.

Bob NK7M

Date: Mon, 19 May 2003 23:14:38 -0400
From: Steve.Lawrence@ITWFEG.COM

To: n5ese@io.com
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [150978] Re: AT Sprint: 1st Day in the Field (and Mods)
Message-ID: <0F4E9E3850.AA2958C7-0N85256D2C.000F47E1-85256D2C.0011D089@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Interesting problem...

Seeing how my antenna blew down in the strong Ohio winds last week, I began testing my AT Sprint using a standard 9V rectangular battery -- receive only -- using a random 4' wire strung across the workbench! I have turned the radio on/off many times without apparent problem. However I think it would be tough to get enough current out of that battery to do any real damage?

Based on Steven's warning, and after some calculations ($f = 1E6/(2\pi\sqrt{L * C})$) and measurements with the LCR meter, I wound the 40M filter board transformer T1 with 33 turns on the primary. This peaked the receive at 7050MHz at minimal capacitance on C8F, so I remove a turn from T1 and tried again. This brought the capacitance up, so I removed another turn from the primary of T1. This resulted in a peak at the middle of C8F's range, which "felt better". Again, testing was done with a 9V battery -- without apparent problems.

Hamvention, graduations, and other activities have interrupted further progress, but I believe I'll take a similar approach to the other filter boards -- adding a few extra turns on T1's primary and removing them as needed. (It's certainly easier to remove turns from a toroid than add turns!)

Meanwhile, I'm interested in locating the pair of the prescribed SMT resistors in the 0807 package: 10 and 10k ohm are needed for the mod. Anyone have these in "stock" in exchange for an SASE? Please drop me a note off list...

73,
Steve
aa8af

Monty N5ESE <n5ese@io.com>
Sent by: owner-qrp-1@Lehigh.EDU

05/19/2003 01:32 AM

Please respond to n5ese

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
cc:
Subject: AT Sprint: 1st Day in the Field (and Mods)

Gang:

For those building the AT Sprint who wish to preclude the possibility of an unhappy and unexpected failure (at the worst possible time - you know Murphy), visit my site for two recommended mods:

<http://www.dit-dididit-dit.com/atsprint.htm>

Date: Mon, 19 May 2003 23:19:41 -0400
From: Jim Thiessen <jthiessen@videotron.ca>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [150979] FDIM Pictures...
Message-ID: <006b01c31e7e\$a7a3ac60\$1c02a8c0@847943dgrb>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I've posted some pictures on webshots:

<http://community.webshots.com/user/va3kv>

Enjoy...

Jim
VA3KV

Date: Mon, 19 May 2003 23:28:01 -0400
From: "Tom Dooley" <tdooley@attbi.com>
To: <qrp-l@lehigh.edu>, <gqrp@yahooogroups.com>
Subject: [150980] 2003 FDIM Chairman Initial Comments
Message-ID: <085f01c31e7f\$d1647f10\$6400a8c0@tdooleyoffice>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, it's back to the real world, as I am out of town for the next five days on business. I am not anywhere near caught up on replying to those who have written with inquiries and comments. Please be patient until I return and can get through all of the e-mail. I apologize for the delay.

I do want to thank all of the fellow QRP'ers who make FDIM the event that it is. All of those who worked hard before and during the event are my heros, and I will make note of those in a future e-mail.

I want to also recognize the Speakers who donated their time, effort and expertise to speak at the Seminar on Thursday and contribute to the proceedings, which is a publication that is a must for everyone's collection. Again, my limited time means that a more detailed note of those Speakers is forthcoming.

I want to also thank the donors to FDIM that make the occasion even more special by their generosity. Those donations really make the event special for those who are lucky enough to win something. Those donations are an incentive for the rest of us to support those faithful vendors. I will also be making a special e-mail to be sure that the generosity is recognized by the QRP Community.

I also want to thank the FISTS Organization and Nancy Kott for the great food that they provided on Vendor Night. Having an event in which the FISTS Organization and QRP-ARCI are both involved is a win-win situation. I hope that we can collaberate together for many years going forward. Please be sure to send a note of thanks to the FISTS organization for their participation and support!

Finally, thanks to the guys and gals who attended. Their support is the real ruler that determines how we do the next FDIM. The past year has been challenging for our world. The economy has been tough for a large number of our QRP Community. In spite of these financial challenges, we still had a great turnout. While we did not have a record attendance, we had an enthusiastic and energetic crowd.

I hope that you will hear more of the attendees reports and that the next year will bring better economic news that will allow us to continue the growth of FDIM.

Again, stand by for more updates and accolades for the real reasons that FDIM is the premier QRP Event of the year!

Tom Dooley, K4TJD
FDIM Chairman

Date: Mon, 19 May 2003 23:41:12 -0400
From: Mark Gilger <mgilger@brightdsl.net>
To: johngabbard@usintouch.com,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: prosolar@sssnet.com
Subject: [150981] Re: Hotwater handbook
Message-ID: <5.1.0.14.2.20030519233913.00ba7078@mail.brightdsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

They are available from the author, Mike Bryce at :

prosolar@sssnet.com

I think he has just come out with the second edition.

Mark, WB0IQK

At 05:09 PM 5/18/03 -0700, john gabbard wrote:

>are they still available? Thanks john...anyone want to sell one?

Date: Mon, 19 May 2003 21:26:41 -0700
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [150982] Re: Mail Call
Message-ID: <Law8-F8NFFG9X01ioj700026234@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Cool.

One WW2 techfest worth pestering your TV networks for
was Wish Me Luck, about British SOE agents working in
occupied France. The radios were correct, and they used
them correctly too. They obviously did their homework.

The IMDB entry <<http://us.imdb.com/Title?0135738>>
is a little sparse, alas.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89lg pied a terre..."
ICBM: 49 16.57 N 123 0.24 W - Hospital/Shafte

Add photos to your e-mail with MSN 8. Get 2 months FREE*.
<http://join.msn.com/?page=features/featuredemail>

Date: Mon, 19 May 2003 23:51:40 -0500 (EST)
From: <igeq100@iupui.edu>
To: Jim Glover <psykey@okcforum.org>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [150983] Re: Why radio?
Message-ID: <Pine.GS0.3.96.1030519235044.7688A-1000000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Jim,

Very well said - I could see my own experiences in your posting.

TNX es 72,

Rich, WB9LPU

Date: Tue, 20 May 2003 00:02:48 -0500
From: Gary Lee <kb9zuv@arrl.net>
To: qrp-1@lehigh.edu
Subject: [150984] paddle starting question
Message-ID: <5.2.0.9.2.20030519235936.00a67290@pop.ameritech.yahoo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Guess its time for me to learn to use paddles. Been using a straight key since my first license in 1977. Need a suggestion for a good starter set of paddles, preferably not real expensive.

Priced several at dayton this week and it looks like most go for around

\$100.00.

Anything out there cheaper but good enough to learn on and use on the air?

Thanks for the help. I'll also need a cheap keyer for practice.

Date: Tue, 20 May 2003 10:50:33 +0200
From: "Sverre Holm - LA3ZA" <la3za@qsl.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [150985] AT Sprint: Crossmodulation finally solved!
Message-ID: <000101c31eac\$e1251d60\$8e00a8c0@Master>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit

My AT Sprint is completed and has now run QSOs on all three bands, but at night here in Scandinavia, there is a severe overload problem, especially on 40 meters.

I use an BLT antenna tuner, with a built-in resistive SWR meter, which when left on, attenuates by something like 8-9 dB. The signals were much easier to copy with this attenuation. The hard part was to remember to flip the switch during transmission!

I did some measurements, and it turned out that I had 0.4-0.5 Vp-p signal at the gate of the input FET on 40 meters, and about 0.2 Vp-p directly from the antenna.

I put a small switch to eliminate C2 (source decoupling) and that helped to a small extent. Then I substituted a dual-gate MOSFET preamp for the JFET preamp. By varying the voltage on gate 2 I could lower the gain, but it did not seem to help.

Finally I started measuring voltages in the input circuit and noticed that the voltage across the two limiting diodes was close to the clipping value. I disconnected them, and most of the intermodulation disappeared!

After consultation with Steve and also a check of "Experimental Methods in RF Design" page 6.70, it turns out that this is not uncommon. EMRFD recommends two or even three diodes in series for the input clipper. So, tonight I will modify my boards: six diodes for the 40 m board and four diodes for each of the 30 and 20 m boards. 1N4148 diodes are cheap and

one can use through hole types here.

73,
Sverre

Sverre Holm, LA3ZA
www.qsl.net/la3za

Date: Tue, 20 May 2003 07:16:12 -0400
From: Lee Jarvis <ljarvis@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [150986] Re: Better start saving
Message-ID: <5.1.1.6.0.20030520071458.00b791d0@pop-server.tampabay.rr.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

\$8,0000.00 (plus tax of course)! I'd be young and single again in a big hurry. We'll... at least single.

73,
Lee KN4VN

At 09:41 PM 5/19/2003 -0400, Steve.Lawrence@ITWFEG.COM wrote:
>They were showing a prototype of this at the Dayton Hamvention in the Icom
>booth -- under plastic case -- you couldn't tweak the knobs!
>
>I thought I heard "8 grand" yes, \$8,000 - for one... at which point I
>glazed over and walked on. Could anyone confirm the expected price?
>
>73,
>Steve
>aa8af
>
>
>
>
>
>Alex <kr1st@amsat.org>
>Sent by: owner-qrp-l@Lehigh.EDU
>05/19/2003 10:24 AM
>Please respond to kr1st

>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> cc:
> Subject: Better start saving
>
>
>Slick:
>
>http://www.icom.co.jp/world/info/ic-7800/IC-7800_pre-release.pdf
>
>73,
>--Alex KR1ST

Date: Tue, 20 May 2003 07:12:24 -0400
From: kwike@gdls.com
To: qrp-1@Lehigh.EDU
Subject: [150987] Michigan QRP Net
Message-ID: <0FED226A0C.F10F0504-0N85256D2C.003D7A94@gdls.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

We had eight check-ins from three states last week.

K8CV	599	ROYAL OAK	MI WALT
WA8BXN	589 589	CLEVELAND	OH MIKE
WA8REI/P	599 599	FREELAND	MI KEN
W8IQB	579 589	BRISTOL	MI LOWELL
AA8MI	579	PERRYSBURG	OH GENE
N1CUU	569 579	GETTYSBURG	PA CARL
WK8S	559	WATERFORD	MI PETE
N8KBG	579 599	BRIDGMAN	MI RON

The Michigan QRP Net meets every Tuesday night at 9:00 PM Eastern time on 3.535 MHz. All hams are welcome.

Ed AB8DF Waterford, MI

Date: Tue, 20 May 2003 04:21:47 -0700 (PDT)
From: Patrick Gardella <pgardella@yahoo.com>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [150988] Homebrew generator
Message-ID: <20030520112147.88751.qmail@web40907.mail.yahoo.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

While doing my morning web crawl, I found this link: <http://theepicenter.com/tow082099.html> It's a link for building your own emergency generator using an old lawn mower engine and a junk yard alternator. They also have a plan for a generator using a horizontal shaft engine.

I haven't build one, but it seems simple enough, and more importantly, cheap. Nice cheap way of getting some emergency power for Field Day or real emergencies. They got 39 Amps out of the one they initally built at 14.4 Volts (560 Watts), but that was the limit of their *load*, not the generator. That would power a few rigs, or charge up your batteries. Since the cheapest generator I could find online in a quick look was \$250 for 1,100 watts, this might be a decent deal.

Time to start visiting some garage sales looking for rusty lawn mowers :)

73,
Patrick N3E0

Do you Yahoo!?
The New Yahoo! Search - Faster. Easier. Bingo.
<http://search.yahoo.com>

Date: Tue, 20 May 2003 07:37:27 -0400
From: "w8diz" <w8diz@fpqrp.com>
To: <qrp-1@Lehigh.EDU>, <fpqrp-1@fpqrp.com>
Subject: [150989] Re: Experimental Methods in RF Design
Message-ID: <008301c31ec4\$34196a50\$b8cf1d41@cinci.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

A couple of comments about a previous email I sent...

It seems that some folks think that selling the referenced book on the list is a slam/insult on the Authors/Book.

*** Nothing could be further from the truth ***

1. I'm not qualified to critique the book.

2. I don't need two copies.

For the record, I've been using ZOI (et al) tech manuals
for reference since they have been available.
They are always within reach from the workbench.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio
Clermont County - EM79uf - near Cincinnati; 39:13:05N 84:18:18W
RIG:multiPIG+ ANT:470 FT Horiz Loop <http://kitsandparts.com>

> ----- Original Message -----

> From: "w8diz" <w8diz@fpqrp.com>

> Sent: Monday, May 19, 2003 10:28 AM

>

> Just picked up this book this past weekend at Dayton HamFest.

> First \$35 gets it shipped to your door. Book is NEW.

Date: Tue, 20 May 2003 07:01:54 -0500

From: bob evinger <wd9eka@evinger.com>

To: pgardella@yahoo.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [150990] Re: Homebrew generator

Message-ID: <3ECA1932.4040408@evinger.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

An advantage to this if you are specifically wanting to charge batteries
is that you at least get rid of one point of inefficiency. That being
the ac to dc conversion of the 120vac iron core battery charger. You
probaby lose half the 120v generators power getting it just to 12volts.
Still probaby not the most effecient system, but better.

bob

Patrick Gardella wrote:

> While doing my morning web crawl, I found this link: <http://theepicenter.com/tow082099.html> It's

> a link for building your own emergency generator using an old lawn mower engine
and a junk yard
> alternator. They also have a plan for a generator using a horizontal shaft
engine.
>
> I haven't build one, but it seems simple enough, and more importantly, cheap.
Nice cheap way of
> getting some emergency power for Field Day or real emergencies. They got 39
Amps out of the one
> they initially built at 14.4 Volts (560 Watts), but that was the limit of their
load, not the
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> generator I could find online in a quick look was \$250 for 1,100 watts, this
might be a decent
> deal.
>
> Time to start visiting some garage sales looking for rusty lawn mowers :)
>
> 73,
> Patrick N3EO
>
> -----
> Do you Yahoo!?
> The New Yahoo! Search - Faster. Easier. Bingo.
> <http://search.yahoo.com>
>

--

Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 07:24:07 -0500
From: <stanw@toxsor.com>
To: <qrp-l@lehigh.edu>
Subject: [150991] Re: NVIS Receiving cont.
Message-ID: <000301c31eca\$b9eab660\$0364010a@toxsor.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>So here's my conclusion: NVIS hears close-in scatter, and stronger

>distant stations. But working closer-in stations is also a function of
>the other station's antenna system and its ability to receive NVIS
>signals. Ken KG4FGC Mon May 19 2003 - 20:54:59 EDT

Ken I expect many of your conclusions are correct such as NVIS to NVIS
appear to work better than a NVIS to high antenna arrangement.

There are several recent postings on the HFBeacon list that suggest that
something occurs with high angle takeoff and distant station reception
(NVIS), since low powered beacons are often heard when conditions indicate
propagation does not support the path. Many of the beacon stations running
QRP level transmitters used simple verticals for transmitting so clearly
there is something that is not fully understood about how
reception/transmission occurs with the NVIS.

As with many aspects of communications there is always room for
experimenting, new theories and opportunities to learn. Amateur radio can
benefit from further investigation into NVIS operation for both portable and
base station operation.

Suggested References:

hfbeacons-owner@explore.plus.com

Also suggested reading of the IEEE and Military type papers that have been
posted in file section of the NVIS list on yahoo.

de Stan ak0b

Date: Tue, 20 May 2003 13:27:10 +0100
From: "Kenneth Evans" <w4du@attbi.com>
To: <GQRP@yahoogroups.com>, "QRP-1" <qrp-1@lehigh.edu>
Subject: [150992] Hall of Fame
Message-ID: <004f01c31ecb\$24713860\$6502a8c0@w4du>
MIME-Version: 1.0
Content-Type: text/plain;

charset="Windows-1252"
Content-Transfer-Encoding: 7bit

It was my pleasure to coordinate the balloting and voting for the QRP Hall of Fame this year. The following individuals were inducted into the QRP Hall of Fame:

Arnold ("Arnie") Coro, C02KK

Graham Firth, G3MFJ

Tony Fishpoll, G4WIF

The names say it all. My congratulations to all three.

72/3,
Ken W4DU
w4du@arrl.net
QRP ARCI #696, GQRP, NOGA, FP #295, NORCAL, ARRL-Life

Date: Tue, 20 May 2003 08:42:36 -0500
From: "Walter AG5P" <walter@accessus.net>
To: <qrp-l@lehigh.edu>
Subject: [150993] Re: NVIS Receiving cont.
Message-ID: <001a01c31ed5\$ad166820\$92476ad8@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ken, it sounds like your NVIS antenna is doing exactly what the antenna and elevation placement is supposed to be doing, receiving and transmitting at high angles :-)

The beauty of having a second antenna like the 10 ft. high or so dipole or horizontal loop is to take advantage of the high angle and eliminate the long path / low angle signals from being a bother. A good example is on 40 meters especially when you are trying to communicate under the 300 or 400 mile range. The NVIS antenna will pretty well eliminate the foreign broadcast. The bands of high interest are 160, 80, now 60, 40, and 30 meters that NVIS mode is going to work reasonably well. Running on 20 meters and up is not going to be of much use to you, Although

working the upper bands can be done but it is just not going to give you results of higher elevation antennas, or the verticals.

If you would like to have a better understanding of how well your NVIS antenna and communication attempts will work, you might like to visit:

<http://www.spacew.com/www/realtime.html>

This gives you a high-resolution map of Maximum Usable Frequencies (MUFs) for 3,000 kilometer radio signal paths. It is also a map showing the current location of the auroral ovals, the sunrise/sunset terminator and the regions of the world where the sun is 12 degrees below the horizon (which estimates the gray-line corridor where HF propagation is usually enhanced). This map is automatically updated every 5 minutes and shows the sun's location. Along these lines, try operating when the Graylines are at your location, you may find some very interesting QSOs taking place. If you have the ability to have this map running when you are operating, try making some notes in your logbook of the MUF and grayline position. Before too long you will be able to predict when the great times to operate are available and you do not need any power output over 5 watts.

72 / 73...Walter Dufrain - AG5P.....Wright City, MO

Date: Tue, 20 May 2003 08:48:11 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [150994] RE: Homebrew generator
Message-ID: <90B09553A615CE4192A646D8CFA67DA8428EC9@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

The ARRL has an article (Members Only) at

<http://www.arrl.org/members-only/tis/info/pdf/9706045.pdf>

73 de N4MVL Lee

-----Original Message-----

From: bob evinger [mailto:wd9eka@evinger.com]

Sent: Tuesday, May 20, 2003 8:02 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Homebrew generator

An advantage to this if you are specifically wanting to charge batteries

is that you at least get rid of one point of inefficiency. That being=20 the ac to dc conversion of the 120vac iron core battery charger. You=20 probaby lose half the 120v generators power getting it just to 12volts.

Still probaby not the most effecient system, but better.

bob

Patrick Gardella wrote:

> While doing my morning web crawl, I found this link:

<http://theepicenter.com/tow082099.html> It's

> a link for building your own emergency generator using an old lawn mower engine and a junk yard

> alternator. They also have a plan for a generator using a horizontal shaft engine. =20

>=20

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> generator I could find online in a quick look was \$250 for 1,100 watts, this might be a decent

> deal.

>=20

> Time to start visiting some garage sales looking for rusty lawn mowers :)

>=20

> 73,

> Patrick N3EO

>=20

> -----
> Do you Yahoo!?
> The New Yahoo! Search - Faster. Easier. Bingo.
> <http://search.yahoo.com>
>=20

--=20
Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 08:53:28 -0500
From: "Michael Melland, W9WIS" <w9wis@charter.net>
To: stanw@toxso.com,
Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [150995] Re: NVIS Receiving cont.
Message-ID: <003a01c31ed7\$34b45020\$4986e98d@uwamngarxezbrg>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7bit

> Ken I expect many of your conclusions are correct such as NVIS to NVIS
> appear to work better than a NVIS to high antenna arrangement.

The military explanation of this phenom is that with NVIS at a 90 degree... straight-up... signal path it is basically a one (maybe 2) bounce system. Significant signal loss occurs when the original signal is reflected nearly 90 degrees back to ground (generally given as 300 mile range). Ground absorbs much of the reflected signal so little if any is re-directed back upwards for the next bounce. This is one of the reasons the military likes it.... makes RDF almost impossible. It's all about ground loss and angles of reflection <grin>.

One reason that NVIS to NVIS works so well is that other HF signals simply overshoot the closer NVIS station while NVIS signals don't. It is possible to bang away CQ's all day and perhaps not hear a return answer... but, there may be stations answering you that you don't hear 'cause their signals pass right over you.

Mike, W9WIS

Date: Tue, 20 May 2003 09:09:16 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [150996] RE: Homebrew generator
Message-ID: <90B09553A615CE4192A646D8CFA67DA8428ECA@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

An additional Thought - If you can find an alternator from a police or rescue vehicle, you will get a lot more current out of a HB generator - these alternators often put out over 100 Amps.

73 de N4MVL Lee

-----Original Message-----

From: Boulineau, Lee [mailto:lee.boulineau@attws.com]
Sent: Tuesday, May 20, 2003 9:48 AM
To: Low Power Amateur Radio Discussion
Subject: RE: Homebrew generator

The ARRL has an article (Members Only) at

<http://www.arrl.org/members-only/tis/info/pdf/9706045.pdf>

73 de N4MVL Lee

-----Original Message-----

From: bob evinger [mailto:wd9eka@evinger.com]
Sent: Tuesday, May 20, 2003 8:02 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Homebrew generator

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Patrick Gardella wrote:

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watts, this might be a decent

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>=20

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:)

>=20

> 73,

> Patrick N3EO

>=20

> -----

> Do you Yahoo!?

> The New Yahoo! Search - Faster. Easier. Bingo.

> <http://search.yahoo.com>

>=20

--=20

Bob Evinger WD9EKA/AAR5MG(Army MARS operator)

If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 10:22:18 -0400

From: "John P. Cummins, Sr." <jpcummins@charter.net>

To: qrp-1@lehigh.edu

Subject: [150997] FDIM Cheeshead Kudos

Message-ID: <3ECA3A1A.8040909@charter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

I just wanted to recognize the Wisconsin Cheesheads who once again brought some great hors d'oeuvres (snacks) to Vendor Night on Friday evening.

Year after year they show up with some really great cheese, crackers and sausage and for those of us running around trying to keep the loose ends from coming unraveled it is nice to have something to tide us over.

It's not always the same so I am looking forward to next year already.

Pickett, AD4S

Date: Tue, 20 May 2003 09:35:51 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <n8ie@woh.rr.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [150998] Re: Dayton - from the vendor side of the table
Message-ID: <003101c31edd\$1dc19f20\$8e6a2bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Dan,

Thanks for mentioning that. I myself enjoyed a large pile of wings and skins courtesy of FISTS.

I'm proud and happy to be a member.

----- Original Message -----
From: "Emmerson Bigguns" <n8ie@woh.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, May 19, 2003 8:46 PM
Subject: RE: Dayton - from the vendor side of the table

> The nice food served at Vendors night was courtesy of Nancy and the

FISTS

> club.

>

>

> 72, oo

> Dan, N8IE

> FPqrp #-6, QRP-1 #1404, FISTS #4985

>

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU]On
Behalf Of

> Bill Kelsey - N8ET - Kanga US

> Sent: Monday, May 19, 2003 4:31 PM

> To: Low Power Amateur Radio Discussion

> Subject: Dayton - from the vendor side of the table

>

>

> Very briefly -

>

> I only sat in on part of one FIDM paper - it was excellent - I
missed the

> rest

> because I was setting up the booth. I understand about 1/3 of the
attendees

> were there for the first time.

>

> I think I had a good weekend! I was in a double booth in the main
arena,

> and

> wa busy enough that I only got out of the booth twice each of the
three

> days -

> each time for a quick trip to the mens room - they were relatively
clean by

> the way!

>

> Friday saw the big ticket items move - Spectrum analyzers, R2Pros,
etc.

> Saturday was more of the smaller items - NA5N's book is still quite
> popular,

> and EMRFD by W7ZOI et.al is still moving well. Completely out of
FOXX3's

> early on Saturday. Even sold two of my demo models at almost twice
the kit

> price (I did not really want to sell 'em!) The new HW-8 handbook
moved

> quickly. I have a good stock if anyone wants one. Completely sold
out of

> TiCK keyers. DK9SQ masts sold well all weekend, although none moved at
> vendors night.
>
> Back at the Ramada I had the best vendors night I ever had. Just glad they
> thought to have food on hand this year or I would have missed another meal.
> The banquet on Saturday was good also - Tony, Graham, and Arnie were
> inducted in the hall of fame. I may have missed something - I was tired
> enough I did not recognize my XYL's call for about 10 seconds when the
> called her out as a prize winner. I was the Quickie Lab PC board, so now I
> have something else on my list of things I need to get built....
>
> The crowd is getting older - I think I was the last one out of the
> conference
> room at 11 pm each night.
>
> Nils left me a double prize to take to the banquet for him - two of the
> biggest
> 0 - 1 ma meters you will ever see. At least 12" in diameter. He said he
> had
> given up trying to make an SWR bridge with them - couldn't find a toroid
> big
> enough!
>
> I never even got to look out the door at the flea market, so I can't tell
> you how
> it looked, but I can tell you I know when it began to rain - the isles
> immediately plugged up!
>
> Someone else will have to fill in the details on the rest of FDIIM.
I was
> too
> busy / too tired to catch it all. It must have been good ;>
>
> 73 - Bill - N8ET
> Kanga US
> kanga@bright.net
> <http://www.bright.net/~kanga/>

> 419-423-4604
> ---
> Incoming mail is certified Virus Free.
> Checked by AVG anti-virus system (<http://www.grisoft.com>).
> Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/2003
>
> ---
> Outgoing mail is certified Virus Free.
> Checked by AVG anti-virus system (<http://www.grisoft.com>).
> Version: 6.0.478 / Virus Database: 275 - Release Date: 5/6/2003
>
>
>

Date: Tue, 20 May 2003 09:39:37 -0500
From: "Brian Murrey - KB9BVN" <brian@iquest.net>
To: <w4du@attbi.com>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [150999] Re: Hall of Fame
Message-ID: <006501c31edd\$a42a30e0\$8e6a2bd1@bmurrey2K>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Very FB choices!

----- Original Message -----
From: "Kenneth Evans" <w4du@attbi.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 7:27 AM
Subject: Hall of Fame

> It was my pleasure to coordinate the balloting and voting for the
QRP Hall
> of Fame this year. The following individuals were inducted into the
QRP
> Hall of Fame:
>
> Arnold ("Arnie") Coro, C02KK
>
> Graham Firth, G3MFJ

>
> Tony Fishpoll, G4WIF
>
> The names say it all. My congratulations to all three.
>
> 72/3,
> Ken W4DU
> w4du@arrl.net
> QRP ARCI #696, GQRP, NOGA, FP #295, NORCAL, ARRL-Life
>
>
>
>

Date: Tue, 20 May 2003 09:43:17 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [151000] Re: NVIS Receiving cont.
Message-ID: <000f01c31ede\$272e13d0\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Ken,

Thanks for your report. It is always neat to hear of other's experiments.

I agree with Walter, 20m and up are not good bands for NVIS. NVIS takes place on bands where your signal can go straight up and then back down (normal incidence to the ionosphere). On 20m signals at 90 degrees tend to go right on through the ionosphere and the only useful signals are at lower elevations where the NVIS antenna doesn't do so well.

In other words, on 20m and above your NVIS antenna will perform poorly like any other low antenna with no NVIS mode present. You can still have QSO's with a low antenna but there is no advantage to having it low on these bands.

On 20m, the relatively close in stations will be heard either by Sporadic-E short skip (common this time of year) or backscatter. If they are really close you can hear them by ground or direct wave of course. Backscatter is the most common mode and this is where the

signal propagates to a distant area that is open to both of you and then scatters back to you. The signals take on a hollow sound and are usually quite weak but they can be very reliable. I use to work close-in stations on 10m by pointing my 4 ele yagi towards the South Pacific or the Caribbean. There seems to always be openings to these regions and the backscatter mode can be very reliable. Unfortunately, once stations found out where I was they would often turn their antennas towards me and the path would be lost.

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Tue, 20 May 2003 07:51:43 -0700
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [151001] Re: IF or Audio DSP filter
Message-ID: <MABBJOEABOILMKCJCLFCKEEFEGAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave
I've been using the DSP 59+ for a long time, first with my old Kenwood TS-180, then with my K2 when I got it. Excellent external DSP unit. Now that I have the internal DSP in the K2, I still use the 59+ for additional audio amplification when I'm listening to a real weak station.
73, Bob N6WG

Date: Tue, 20 May 2003 10:57:17 -0400
From: Caitlyn Martin <ku4qd@earthlink.net>
To: ljarvis@tampabay.rr.com

Cc: qrp-1@lehigh.edu
Subject: [151002] Re: Better start saving
Message-ID: <20030520105717.222b67f1.ku4qd@earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

On Tue, 20 May 2003 07:16:12 -0400
Lee Jarvis <ljarvis@tampabay.rr.com> wrote:

> \$8,0000.00 (plus tax of course)! I'd be young and single again in a
> big hurry. We'll... at least single.

I remember when the IC-781 (or the prototype, the IC-X1) was first unveiled. Most hams thought it was a joke. Icom would never be able to sell the thing at that price point. The fact is, a lot of hams did spend the big bucks for an IC-781. I suspect the same thing will happen with the IC-7800. The big guns with sufficient funds will spend an outrageous amount for one.

Dual receive is not new. The Yaesu FT-1000D has it.

I, for one, will stick with my low end, simple, inexpensive radios. Ham radio is not and has never been that incredibly important to me. For some people it seems to be an obsession and central to their lives. The IC-7800 is for them, not for me.

Tell me, will the QSOs be any better with that rig?

72/73,
Caity
KU4QD

Date: Tue, 20 May 2003 08:56:52 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-1@lehigh.edu
Subject: [151003] Re: Source for Tiny Tubes
Message-ID: <20030520.090045.-155333.1.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

One source would probably be Fair Radio

or a number of the other surplus military dealers. www.fairradio.com will bring up their page.

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."

Sam Houston, Governor

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Tue, 20 May 2003 08:54:45 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-l@lehigh.edu
Subject: [151004] Re: Better start saving
Message-ID: <20030520.090045.-155333.0.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

According to one person on the Kenwood list that apparently stopped and talked to a representative (guard?) and when he mentioned the \$8k price, the person said higher - more on the order of 10K+.

I guess something like that will appeal to the "serious" tester.

Ray

"Texas can make it without the United States,
but the United States can't make it without Texas."

Sam Houston, Governor

Ray Colbert, W5XE, 00TC#3618, SOWP#1064M
ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS

Date: Tue, 20 May 2003 11:21:33 -0400
From: "John Harper AE5X" <john@ae5x.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [151005] OT: New email address
Message-ID: <003501c31ee3\$7f1296c0\$6501a8c0@JOHN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

john@ae5x.com

John Harper AE5X
Outdoor QRP & 80-Meter DXing: <http://www.ae5x.com>

Date: Tue, 20 May 2003 11:33:05 -0400
From: steve.lawrence@itwfeg.com
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151006] Re: Better start saving
Message-ID: <OFB2032E01.C7E6B52B-0N85256D2C.00545021-85256D2C.00556D24@itwfeg.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Where's the adventure in a QS0? The sense of accomplishment? The excitement? Is parachuting to the summit of Everest the same as climbing it?

I submit not...

Further, how we expand the hobby with a radio priced like a small car?

The ultimate in pelf!

In sharp contrast, we're here... driven by a love and interest in doing more with less, often on home brew/made equipment. This is the spirit of QRP.

Steve
aa8af

Caitlyn Martin <ku4qd@earthlink.net>
Sent by: owner-qrp-1@Lehigh.EDU
05/20/2003 10:57 AM
Please respond to ku4qd

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
cc:
Subject: Re: Better start saving

On Tue, 20 May 2003 07:16:12 -0400

Lee Jarvis <ljarvis@tampabay.rr.com> wrote:

> \$8,0000.00 (plus tax of course)! I'd be young and single again in a
> big hurry. We'll... at least single.

...

Tell me, will the QSOs be any better with that rig?

72/73,
Caity
KU4QD

Date: Tue, 20 May 2003 11:36:14 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: <pgardella@yahoo.com>,

"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [151007] Re: Homebrew generator

Message-ID: <009f01c31ee5\$8e90bc60\$0200a8c0@charter.net>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

When my uncle was alive, he used to always be making generators. He'd make one, use it for a few months, sell it for more than he had in it, and make yet another one.

He used to get his generators and alternators from some catalog... Eventually he was up to some serious 10-12hp setups with throttle controls for frequency and voltage regulation.

But when he started, he ran into plans (WAY before the internet) on how to convert car alternators to AC. Multiple phase AC. You couldn't tie them together, but you could get multiple legs for multiple devices... Kind of neat.

Mike

Date: Tue, 20 May 2003 11:39:58 -0400
From: "Joe W2KJ" <w2kj@bellsouth.net>
To: <kb9zuv@arrl.net>
Cc: "qrp-1" <qrp-1@lehigh.edu>
Subject: [151008] Re: paddle starting question
Message-ID: <000801c31ee6\$124db620\$220110ac@gateway.2wire.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Gary Lee" <kb9zuv@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 1:02 AM
Subject: paddle starting question

> Guess its time for me to learn to use paddles. Been using a
straight key
> since my first license in 1977. Need a suggestion for a
good starter set
> of paddles, preferably not real expensive.
>
> Priced several at dayton this week and it looks like most go
for around
> \$100.00.
>
> Anything out there cheaper but good enough to learn on and
use on the air?
>
> Thanks for the help. I'll also need a cheap keyer for
practice.
>
>Gary:

Check Ebay for paddles....there are always Bencher paddles for
auction there at substantial savings.

I used Bencher paddles for years and they are very serviceable
instruments for CW ops.

73, Joe W2KJ

Date: Tue, 20 May 2003 11:41:23 -0400
From: "Lee Mairs" <lairs@direcway.com>
To: <lee.boulineau@attws.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151009] Re: Homebrew generator
Message-ID: <007201c31ee6\$49879700\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The problem with getting more than 90 amps out of a 12 VDC alternator is the mechanical transfer from engine to the alternator. You will need two pulleys on both engine and alternator with a set of identical belts to pull more than 90 amps. Of course, you can get more for a few seconds, then that burning smell will be the belt melting as it slips over the pulleys. The black dust in the vicinity of the belt will be remnants of the belt. This happens all the time in the recreational marine industry. It seems like a "Go fast" alternator is every boatowner's first project.

73 de Lee
km4yy/8

----- Original Message -----
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 10:09 AM
Subject: RE: Homebrew generator

An additional Thought - If you can find an alternator from a police or rescue vehicle, you will get a lot more current out of a HB generator - these alternators often put out over 100 Amps.

73 de N4MVL Lee

-----Original Message-----
From: Boulineau, Lee [mailto:lee.boulineau@attws.com]
Sent: Tuesday, May 20, 2003 9:48 AM
To: Low Power Amateur Radio Discussion
Subject: RE: Homebrew generator

The ARRL has an article (Members Only) at

<http://www.arrl.org/members-only/tis/info/pdf/9706045.pdf>

73 de N4MVL Lee

-----Original Message-----

From: bob evinger [mailto:wd9eka@evinger.com]

Sent: Tuesday, May 20, 2003 8:02 AM

To: Low Power Amateur Radio Discussion

Subject: Re: Homebrew generator

An advantage to this if you are specifically wanting to charge batteries

is that you at least get rid of one point of inefficiency. That being the ac to dc conversion of the 120vac iron core battery charger. You probabaly lose half the 120v generators power getting it just to 12volts.

Still probabaly not the most effecient system, but better.

bob

Patrick Gardella wrote:

> While doing my morning web crawl, I found this link:

<http://theepicenter.com/tow082099.html> It's

> a link for building your own emergency generator using an old lawn mower engine and a junk yard

> alternator. They also have a plan for a generator using a horizontal shaft engine.

>

> I haven't build one, but it seems simple enough, and more importantly, cheap. Nice cheap way of

> getting some emergency power for Field Day or real emergencies. They got 39 Amps out of the one

> they initally built at 14.4 Volts (560 Watts), but that was the limit of their *load*, not the

> generator. That would power a few rigs, or charge up your batteries. Since the cheapest

> generator I could find online in a quick look was \$250 for 1,100 watts, this might be a decent

> deal.

>

> Time to start visiting some garage sales looking for rusty lawn mowers :)

>
> 73,
> Patrick N3EO
>
> -----
> Do you Yahoo!?
> The New Yahoo! Search - Faster. Easier. Bingo.
> <http://search.yahoo.com>
>

--
Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 11:43:41 -0400
From: "Lee Mairs" <lairs@direcway.com>
To: <ku4qd@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151010] Re: Better start saving
Message-ID: <008801c31ee6\$9c5b0cf0\$3b6d020a@boomer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You kidding? With 90 buttons/adjustments to play with, who cares about the
qso?
(;^o)!
73 de Lee
km4yy/8

----- Original Message -----
From: "Caitlyn Martin" <ku4qd@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 10:57 AM
Subject: Re: Better start saving

> On Tue, 20 May 2003 07:16:12 -0400
> Lee Jarvis <ljarvis@tampabay.rr.com> wrote:
>
> > \$8,0000.00 (plus tax of course)! I'd be young and single again in a
> > big hurry. We'll... at least single.

>
> I remember when the IC-781 (or the prototype, the IC-X1) was first
> unveiled. Most hams thought it was a joke. Icom would never be able to
> sell the thing at that price point. The fact is, a lot of hams did
> spend the big bucks for an IC-781. I suspect the same thing will happen
> with the IC-7800. The big guns with sufficient funds will spend an
> outrageous amount for one.
>
> Dual receive is not new. The Yaesu FT-1000D has it.
>
> I, for one, will stick with my low end, simple, inexpensive radios. Ham
> radio is not and has never been that incredibly important to me. For
> some people it seems to be an obsession and central to their lives. The
> IC-7800 is for them, not for me.
>
> Tell me, will the QSOs be any better with that rig?
>
> 72/73,
> Caity
> KU4QD
>
>
>
>

Date: Tue, 20 May 2003 11:45:06 -0400
From: listmember <listmember@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [151011] Re: Better start saving
Message-ID: <001201c31ee6\$c99d5ab0\$2600a8c0@GALAXY>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Wow, to think I can operate my homemade junk on the same bands as an \$8k radio!

Pretty soon they will be hooking these babies up to big amps so they can talk across town on 75 meters. Goes to show that ham radio has it's share of mindless idiots.

Ok, so maybe an \$8k antenna system might make some sense...

If anyone wants one of these, the \$8k radio, that is, you can buy it at HRO in Delaware. We have NO sales tax. (I have no connection to HRO.) Then

visit our wonderful Delaware Park Casino and help keep my taxes low. (The Casino pays a huge amount in taxes -- and I do benefit from low taxes.)

72

Hap, WA3PTG

Wilmington DE

"The no sales tax state"

>

> > \$8,0000.00 (plus tax of course)! I'd be young and single again in a
> > big hurry. We'll... at least single.

>

> I remember when the IC-781 (or the prototype, the IC-X1) was first
> unveiled. Most hams thought it was a joke. Icom would never be able to
> sell the thing at that price point. The fact is, a lot of hams did
> spend the big bucks for an IC-781. I suspect the same thing will happen
> with the IC-7800. The big guns with sufficient funds will spend an
> outrageous amount for one.

Date: Tue, 20 May 2003 08:49:25 -0700 (PDT)

From: Lloyd Lachow <llachow@yahoo.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [151012] Re: Better start saving

Message-ID: <20030520154925.75945.qmail@web41003.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

--- steve.lawrence@itwfeg.com wrote:

> Where's the adventure in a QS0? The sense of
> accomplishment? The
> excitement? Is parachuting to the summit of Everest
> the same as climbing
> it?
>
> I submit not...

Interesting! For me, as for so many of us, I think,
a major part of the fun is using QRP. What fun,
indeed, is QRO? None, for me. I don't even think fone
ops is fun, but that's a nother topic...

But I just got back from the 'vention, and there were thousands of ops there who like those big ol' boxes, and that's the fun for them. It's all an exercise in, "...that's why they make vanilla and chocolate ice cream," that there's just no accounting for people's tastes. And that's ok, as long as no-one gets crowded out.

Helicopter drop to Everest's summit, for a quick look-see, photo op? Count me in!! No way I'm climbing that thing!

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
FPQRP #476 - QRP-L #2415 - SOC #530
Fun = Skill / Power !

Do you Yahoo!?

The New Yahoo! Search - Faster. Easier. Bingo.

<http://search.yahoo.com>

Date: Tue, 20 May 2003 10:58:27 -0500

From: Michael Goins <mgoins@usa.net>

To: <brian@iquest.net>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [151013] Re: [Re: Hall of Fame]

Message-ID: <121HeTP7b1712S01.1053446307@uwdvg001.cms.usa.net>

Mime-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1

Content-Transfer-Encoding: quoted-printable

I concur. I've met two of the three, and they are first rate individuals =
and

invaluable to the QRP community. While I've not met Arnie, I've heard his=

program broadcasts (and read his scripts). He too is invaluable. All thre=
e are

excellent choices. =

"Brian Murrey - KB9BVN" <brian@iquest.net> wrote:
Very FB choices!

72,
mike
wb5yjx
100% Solar station: SW20+, SW30+, RM-40
Mobile: FT-817 @ 1 watt, CW and SSB
QRP-ARCI 3922 (former managing editor, QRP Quarterly), =

SOC 54, Flying Pig 447, QRP-L 2130, Adventure Radio 810,
Alaska QRP 514, QCWA 30857

Date: Tue, 20 May 2003 10:58:56 -0500 (CDT)
From: bob evinger <wd9eka@evinger.com>
To: Lee Mairs <lmairs@direcway.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [151014] Re: Homebrew generator
Message-ID: <Pine.LNX.4.44.0305201051130.24414-100000@aprs2>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The quality of the belt makes a big difference as well. A non generator use I have in mind. I fly ultralights my dad had one that used a 4 belt redrive to a 60 inch prop. The engine was putting out in the vicinity of 35 hp. The person who originally configured the system used cheap auto belts. Those did as you say black dust and severe wear. We went to industrial belts, cost a lot more. I think dad said that the auto fan belts in the size we were dealing with were really only good for 1 or 2 hp. The industrial belts were good to around 8 hp in the same size. times 4 gave us 32 hp of transfer. I put over 100 hours on that set of belts before we replaced them and that was precautionary. They still looked pretty good but since my rear end was flying behind them I wanted them changed.

So, you might be able to pay a little bit more for the industrial version and still get by with one belt. Might be cheaper than getting a multi-pulley setup and dealing with alignment and tensioning.

This may just get me motivated. I have been wanting to put together a similar setup for an alternate charging scheme for my 700 a/h battery bank that is solar charged that I run the shack and parts of the house off for

those low sun days.

bob

On Tue, 20 May 2003, Lee Mairs wrote:

> The problem with getting more than 90 amps out of a 12 VDC alternator is the
> mechanical transfer from engine to the alternator. You will need two
> pulleys on both engine and alternator with a set of identical belts to pull
> more than 90 amps. Of course, you can get more for a few seconds, then that
> burning smell will be the belt melting as it slips over the pulleys. The
> black dust in the vicinity of the belt will be remnants of the belt. This
> happens all the time in the recreational marine industry. It seems like a
> "Go fast" alternator is every boatowner's first project.

> 73 de Lee

> km4yy/8

>

> ----- Original Message -----

> From: "Boulineau, Lee" <lee.boulineau@attws.com>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Tuesday, May 20, 2003 10:09 AM

> Subject: RE: Homebrew generator

>

>

> An additional Thought - If you can find an alternator from a police or
> rescue vehicle, you will get a lot more current out of a HB generator -
> these alternators often put out over 100 Amps.

>

> 73 de N4MVL Lee

>

> -----Original Message-----

> From: Boulineau, Lee [mailto:lee.boulineau@attws.com]

> Sent: Tuesday, May 20, 2003 9:48 AM

> To: Low Power Amateur Radio Discussion

> Subject: RE: Homebrew generator

>

>

> The ARRL has an article (Members Only) at

>

> <http://www.arrl.org/members-only/tis/info/pdf/9706045.pdf>

>

> 73 de N4MVL Lee

>

>

>

> -----Original Message-----

> From: bob evinger [mailto:wd9eka@evinger.com]

> Sent: Tuesday, May 20, 2003 8:02 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Homebrew generator
>
>
> An advantage to this if you are specifically wanting to charge batteries
>
> is that you at least get rid of one point of inefficiency. That being
> the ac to dc conversion of the 120vac iron core battery charger. You
> probaby lose half the 120v generators power getting it just to 12volts.
>
> Still probaby not the most effecient system, but better.
>
> bob
>
>
> Patrick Gardella wrote:
> > While doing my morning web crawl, I found this link:
> <http://theepicenter.com/tow082099.html> It's
> > a link for building your own emergency generator using an old lawn
> mower engine and a junk yard
> > alternator. They also have a plan for a generator using a horizontal
> shaft engine.
> >
> > I haven't build one, but it seems simple enough, and more importantly,
> cheap. Nice cheap way of
> > getting some emergency power for Field Day or real emergencies. They
> got 39 Amps out of the one
> > they initaly built at 14.4 Volts (560 Watts), but that was the limit
> of their *load*, not the
> > generator. That would power a few rigs, or charge up your batteries.
> Since the cheapest
> > generator I could find online in a quick look was \$250 for 1,100
> watts, this might be a decent
> > deal.
> >
> > Time to start visiting some garage sales looking for rusty lawn mowers
> :)
> >
> > 73,
> > Patrick N3EO
> >
> > -----
> > Do you Yahoo!?
> > The New Yahoo! Search - Faster. Easier. Bingo.
> > <http://search.yahoo.com>
> >
>

>
>
>

--

Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 12:14:56 -5
From: "Bill Kelsey - N8ET - Kanga US" <kanga@bright.net>
To: qrp-l@Lehigh.EDU
Subject: [151015] Re: Hotwater handbook
Message-ID: <200305201611.h4KGBSAj001143@rhombus.bright.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

I also have a supply, and the GQRP Club will have some as soon as they arrive in the UK (via surface mail).

73 - Bill - N8ET
Kanga US
kanga@bright.net
<http://www.bright.net/~kanga/>
419-423-4604

Date: Tue, 20 May 2003 12:13:01 -0400
From: Michael Babineau <michael.babineau@sympatico.ca>
To: qrp-l@Lehigh.EDU
Subject: [151016] SWL Freq-Mite in an MFJ 9420 SSB Travel Radio
Message-ID: <EDD9DA84-8ADD-11D7-B669-00039309268A@sympatico.ca>
Mime-Version: 1.0 (Apple Message framework v552)
Content-Type: text/plain; charset=US-ASCII; format=flowed
Content-Transfer-Encoding: 7bit

Folks :

For anyone else with an MFJ9420 20M SSB Travel Radio that might be interested ...

I successfully installed a Small WonderLabs Freq-Mite into my rig yesterday.

This is a great addition to this radio as poor resolution on the analog tuning of this rig somewhat detracted from what is otherwise an exception little SSB rig.

The gory details :

Power was tapped off of the rig on/off switch. You will notice a wire (yellow on my rig) that comes of the switch to the light for the S meter. I used the lug on the switch just across from it.

Audio out from Freq-Mite goes to the Receiver Audio chain at the junction of C40 and R23 (convenient point just before the audio amp section).

RF in comes off of pin 6 on U7 (this point was highlighted as a VFO calibration test point in the manual). No offset jumpers needed as the IF in this rig is 10.000 MHZ.

I mounted a R/S Sub-mini momentary push button switch (R/S 275-1571B) in the upper right hand corner of the front panel.

Since I do not have the CW option installed in this rig, I mounted the Freq-Mite board parallel to the main board on the metal standoff in the front right of the rig (more or less behind the volume control) by straightening out the little metal L-bracket that comes with the Freq-Mite.

Michael VE3WMB

Date: Tue, 20 May 2003 11:15:53 -0500
From: "George, W5YR" <w5yr@att.net>
To: <steve.lawrence@itwfeg.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [151017] Re: Better start saving
Message-ID: <003501c31eeb\$170a6190\$0401a8c0@PS>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Folks, you can walk, roller skate, bicycle, or drive the cheapest KIA or the most expensive Cadillac or Mercedes.

They will all get you to the grocery store and back.

Isn't it really a matter of how *you* want to do it?

And nobody said that you have to "do it* the same way every time.

I run a K2; I run a PRO; I run a PRO2; and I run an IC-765. I have a Ten Tec 1330 kit to build.

I use and enjoy all of them. Somehow the price of each has never had the slightest thing to do with either my choice or my enjoyment of using a rig.

Why should the price of a highly sophisticated radio make it any less enjoyable or less acceptable when operated at 5 watts, where my other radios usually stay?

So far, no one yet has objected to my using my PRO2 on QRP, especially for Fox Hunts. Especially my fellow team members of the NE-TX Tornados who won the 2002-2003 Fox Hunts. And the new 7800 basically amounts to a pair of PRO2s in the same box.

This is way off-topic so if Jim axes this before it is ever posted, that is fine with me. Just wanted to make the point that it is *what we do* with our pelf that really determines if it is *pelf*.

"Pelf is as pelf does . . ."

I will never have a 7800 but if I did I doubt very much that anyone could tell that I was using it on 7040! <:}

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"

<mailto:w5yr@att.net>

<snip>

> Where's the adventure in a QSO? The sense of accomplishment? The
> excitement? Is parachuting to the summit of Everest the same as climbing
> it?

Date: Tue, 20 May 2003 11:23:35 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151018] RE: Homebrew generator
Message-ID: <90B09553A615CE4192A646D8CFA67DA81C8782@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

I would also use a dual-belt system with the larger alternators, as Lee suggests. If you look under the hood of a Police car, you will notice some heavy-duty belts!!! Another possibility is a chain drive like the timing chains found on the Saturns. On another note, 20 to 30 amps can be gotten out of a motorcycle alternator - a stock Harley alternator for the Softtail and Dyna is rated at 32 Amps, and the Electraglide's alternator runs 38 Amps. Would this work with a Weed-Wacker or Edger engine??? Hhhhhhhmmmmmm!!!!=20

73 DE N4MVL Lee

-----Original Message-----
From: bob evinger [mailto:wd9eka@evinger.com]
Sent: Tuesday, May 20, 2003 11:59 AM
To: Low Power Amateur Radio Discussion
Subject: Re: Homebrew generator

The quality of the belt makes a big difference as well. A non generator=20 use I have in mind. I fly ultralights my dad had one that used a 4 belt=20 redrive to a 60 inch prop. The engine was putting out in the vicinity of

35 hp. The person who originally configured the system used cheap auto=20 belts. Those did as you say black dust and severe wear. We went to=20 industrial belts, cost a lot more. I think dad said that the auto fan=20 belts in the size we were dealing with were really only good for 1 or 2=20 hp. The industrial belts were good to around 8 hp in the same size.
times=20

4 gave us 32 hp of transfer. I put over 100 hours on that set of belts=20 before we replaced them and that was precautionary. They still looked=20 pretty good but since my rear end was flying behind them I wanted them=20 changed.

So, you might be able to pay a little bit more for the industrial

version=20

and still get by with one belt. Might be cheaper than getting a=20
multi-pulley setup and dealing with alignment and tensioning.

This may just get me motivated. I have been wanting to put together a=20
similar setup for an alternate charging scheme for my 700 a/h battery
bank=20
that is solar charged that I run the shack and parts of the house off
for=20
those low sun days.

bob

On Tue, 20 May 2003, Lee Mairs wrote:

> The problem with getting more than 90 amps out of a 12 VDC alternator
is the
> mechanical transfer from engine to the alternator. You will need two
> pulleys on both engine and alternator with a set of identical belts to
pull
> more than 90 amps. Of course, you can get more for a few seconds,
then that
> burning smell will be the belt melting as it slips over the pulleys.
The
> black dust in the vicinity of the belt will be remnants of the belt.
This
> happens all the time in the recreational marine industry. It seems
like a
> "Go fast" alternator is every boatowner's first project.
> 73 de Lee
> km4yy/8
>=20

> ----- Original Message -----=20

> From: "Boulineau, Lee" <lee.boulineau@attws.com>

> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

> Sent: Tuesday, May 20, 2003 10:09 AM

> Subject: RE: Homebrew generator

>=20

>=20

> An additional Thought - If you can find an alternator from a police or
> rescue vehicle, you will get a lot more current out of a HB generator
-

> these alternators often put out over 100 Amps.

>=20

> 73 de N4MVL Lee

>=20

> -----Original Message-----

> From: Boulineau, Lee [mailto:lee.boulineau@attws.com]
> Sent: Tuesday, May 20, 2003 9:48 AM
> To: Low Power Amateur Radio Discussion
> Subject: RE: Homebrew generator
>=20
>=20
> The ARRL has an article (Members Only) at
>=20
> <http://www.arrl.org/members-only/tis/info/pdf/9706045.pdf>
>=20
> 73 de N4MVL Lee
>=20
>=20
>=20
> -----Original Message-----
> From: bob evinger [mailto:wd9eka@evinger.com]
> Sent: Tuesday, May 20, 2003 8:02 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Homebrew generator
>=20
>=20
> An advantage to this if you are specifically wanting to charge
batteries
>=20
> is that you at least get rid of one point of inefficiency. That being
> the ac to dc conversion of the 120vac iron core battery charger. You
> probaby lose half the 120v generators power getting it just to
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>=20
> Still probaby not the most effecient system, but better.
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> bob
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> Patrick Gardella wrote:
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> <http://theepicenter.com/tow082099.html> It's
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> of their *load*, not the
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batteries.
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> watts, this might be a decent
> > deal.
> >
> > Time to start visiting some garage sales looking for rusty lawn
mowers
> :)
> >
> > 73,
> > Patrick N3EO
> >
> > -----
> > Do you Yahoo!?
> > The New Yahoo! Search - Faster. Easier. Bingo.
> > <http://search.yahoo.com>
> >
>=20
>=20
>=20
>=20

--=20

Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Tue, 20 May 2003 11:45:30 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151019] RE: Better start saving
Message-ID: <90B09553A615CE4192A646D8CFA67DA81C8783@TX-MSG05-
CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

Hear, Hear !!! This goes straight to the philosophy of QRP - we try to =
reach out further with low power!! That doesn't have to mean that we =

have to use crummy antennas or lousy receivers. If I make a QRP contact = with my Yaesu FT-100D, mt FT-817 or my Icom IC706MkII-G versus my HW-9 = or my HB rigs, it is still a QRP contact!!! If the OM (or YL for you, = Caity) on the other end of the QSO tells me that they are using an Icom = IC-781 to a 6-element beam at 100 feet, but they are running 5 watts, = they are still QRP. How many of us have hiked up a mountain to get out = our 5 watts (or 2,1,0.5,0.1,0.01 watts)?!? This is certainly on-topic; = we are discussing our philosophies!! George, you're right there - don't = sell your comments short by saying they're off topic!!

Thanks for the BW for my "rant" !!!

73 de Lee N4MVL

-----Original Message-----

From: George, W5YR [mailto:w5yr@att.net]

Sent: Tuesday, May 20, 2003 12:16 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Better start saving

Folks, you can walk, roller skate, bicycle, or drive the cheapest KIA or = the most expensive Cadillac or Mercedes.

They will all get you to the grocery store and back.

Isn't it really a matter of how *you* want to do it?

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fine with me. Just wanted to make the point that it is *what we do* with =
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tell that I was using it on 7040! <:}

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"
<mailto:w5yr@att.net>

<snip>

> Where's the adventure in a QSO? The sense of accomplishment? The
> excitement? Is parachuting to the summit of Everest the same as =
climbing
> it?

Date: Tue, 20 May 2003 09:45:57 -0700
From: "KXBill" <w7kxb@cox.net>
To: <ljarvis@tampabay.rr.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151020] Ahhh...to be young and single again.....
Message-ID: <005d01c31eef\$51b158e0\$25ac6d44@ph.cox.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello Lee:

Sorry you corrected yourself. I was about to order a couple.

Cheers

Bill/w7kxb

----- Original Message -----

From: "Lee Jarvis" <ljarvis@tampabay.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 04:16
Subject: Re: Better start saving

\$8,0000.00 (plus tax of course)! I'd be young and single again in a big hurry. We'll... at least single.

73,
Lee KN4VN

Date: Tue, 20 May 2003 09:53:15 -0700
From: "KXBill" <w7kxb@cox.net>
To: <pgardella@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151021] Re:Lawn mower generator
Message-ID: <006101c31ef0\$4ea92c80\$25ac6d44@ph.cox.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's a fun project Patrick. I built one about 30 years ago. Used the whole lawn lower deck and side mounted the alternator with the shaft extending below. A couple of pulleys, V belt, and you in business. Real easy to move around.

Cheers
Bill/w7kxb

----- Original Message -----

From: "Patrick Gardella" <pgardella@yahoo.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 04:21
Subject: Homebrew generator

While doing my morning web crawl, I found this link:
<http://theepicenter.com/tow082099.html> It's
a link for building your own emergency generator using an old lawn mower engine and a junk yard

alternator. They also have a plan for a generator using a horizontal shaft engine.

Date: Tue, 20 May 2003 12:58:01 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [151022] Re: Mail Call and Small Tubes
Message-ID: <20030520122918.E2698-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well,

I go away for a couple of days and nearly miss a real interesting discussion. Although on the tail end, I would like to add a couple of pence to the story.

I know exactly what you are describing as I have a few in my Archives Collection somewhere :^} They are Sub-Miniature Tubes made by Rayethon Corporation and Sylvania. There may be others as they were used quite profusely by the Military to to help End WWII! Yes, They were instrumental in at least shortening the war by two years according to some reports.

I recently watched a documentary film on Public Broadcasting Network, that thoroughly Documented the Story. One most interesting fact is that their use was the result of research (TOP SECRET), right here in my Home Town. Yes, The Sleepy Little Suburb of Washington, D.C. was to become a famous place because of those little tubes, whose previous life was as an Amplifier for Early Hearing Aid Devices. Now that I think of It, my Great Uncle used them.

The Johns Hopkins Applied Physics Laboratories were located in an old run down looking building in the heart of Silver Spring across the Street from the Telephone Company Building in the 8600 Block of Georgia Avenue.

My Aunt was an Operator There. No, She Did not wear Roller Skates. :^}

Usually the Chief or Assistant Chief did that. Pretty amazing place for a young lad of about ten to visit. Little did I know then that I would eventually help build places like that, let alone fix them.

Sorry, but reminiscing quickly carries you away from the subject.

The Little Rayethon Hearing Aid Tubes were to become the Heart for The "Proximity Fuse" which was screwed into the head of Artillery Shells and Later Torpedos. This little device increased the Accuracy of the Shells by a "Quantum Leap" O.K. I don't recall the exact figures, but it was very significant.

Also I can't recall the details right now, but the real story was in how they discovered a way to Ruggedise the Tube in manufacture. Something which was discovered by using a so called faulty batch of tubes on a range test for certification so as not to have to delay the project to wait for a new batch.

O.K. Maybe a bit of luck, but they still had to figure out why that batch worked so well.

I hope that you enjoyed this lille history lesson about JHAPL and SS MD.

I would like to suggest that all who are interested check into the film for their own enlightenment and enjoyment.

Quite a surprise for a lad who grew up here thinking that the only significant thing we had in town was The Silver Theatre and a Funny Acorn Topped Gazebo that Covered a "Very Small Silver Spring". (Discovered by a Local Land Barron named Blair) Ie, the Blair Mansion. (Draft Board Fame).

Although Bruce also lives here now, I don't think he is a "Native of Silver Spring" :^}

Anyone remember the "Seco Theatre?" Tom Mix, Hoot Gibson, Roy, Gene and others ? (Buck) :^}

QRPP Dx Tu (C) 2002

Sir George, The First :^}

72 ES QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -

QRP A.R.C.I. Board of Directors & QQ Back Issues Sales and Services
Yes, We take "PayPal" to "George Gingell" <K3TKS@abs.net>

Gingell & Company, Ltd.
Locksmith & Handyman Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117

Date: Tue, 20 May 2003 12:06:07 -0500
From: "Dennis Payton" <dpayton@fwi.com>
To: <qrp-1@lehigh.edu>
Subject: [151023] Several Antenna Questions
Message-ID: <01cc01c31ef2\$1b8cb130\$e7b054d1@6300us>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here are a few antenna questions that I'm currently seeking answers to. Knowledgeable help with any of them would sure be appreciated. They'll probably show that I've not taken any "Antennas 101" courses lately!

1.) Is there a performance advantage to building a vertical from tubing instead of wire? (I only operate at QRP levels.) If there isn't, then is the only advantage to buying a commercial vertical its multiband capability and durability? Is there much difference in efficiency between a long and a short vertical, or is it just bandwidth? For forty meters, I'm wondering if a quarter wave vertical built using a \$100 DK9SQ mast will give me as much or more efficiency than a \$300+ commercial vertical. Or if I could spiral wind the mast and create a 1/2 wave, then use short counterpoises instead of radials, and have a matching network at the base. Would an electronic tuner at the base, or ladder line to my shack allow it to function as a multi-band vertical that will work as well as any commercial antenna I could buy?

2.) I'm unable to have a permanent wire antenna, so I put up temporary end fed wires and dipoles. Does wire diameter have a discernable affect on efficiency at QRP levels? I've got some "wire" about the same diameter as dental floss that is actually several strands of strong fiber that are spiral wound with flat, durable metal. It solders easily, is almost indestructible, maintains its length, and is basically impossible to see. And I've been using it almost exclusively. I'm wondering though, if its small diameter hurts my efficiency. (I asked this question before but didn't get it answered - just comments about the wire.)

3.) I'm told that my Cushcraft R7 vertical receives as well as it transmits because of the principal of reciprocity. If reciprocity is a fact though, then why is it sometimes advantageous to use separate TX & RX antennas? Could it be that the TX antenna handles the signal better but has a worse signal-to-noise ratio? I've used my R7 with many different radios over the years under many different conditions and am used to struggling to hear a

fellow operating 100 watts, although he easily copies my one watt, so I'm unconvinced of reciprocity.

4.) Is the saying, "Put up the highest and longest antenna that you can," always true? If it is, then I wonder why I don't hear of anybody putting up a *really* long dipole. Maybe there's a point of diminishing returns after the first or second wavelength? Do fellows who use kites try to get as much wire as high as they can?

Thanks again for any help,

Denny Payton, N9JXY
Auburn, IN

Date: Tue, 20 May 2003 13:48:47 -0400
From: "Rex Harper" <w1rex@megalink.net>
To: <qrp-l@lehigh.edu>
Subject: [151024] Tiny tubes & the birthplace of the proximity fuse
Message-ID: <006d01c31ef8\$109f3da0\$6a01a8c0@maine.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

from George, Public Radio says proximity fuses were developed by:

The Johns Hopkins Applied Physics Laboratories were located in an old run down looking building in the heart of Silver Spring across the Street from the Telephone Company Building in the 8600 Block of Georgia Avenue.

then there is New Mexico Institute of Mining and Technology:

<<http://www.nmt.edu/mainpage/storms/chap2.html>>

and another birthplace is from the Camp Evans Historical page:

<<http://www.infoage.org/ap-12-12-1949.html>>

As for me, I have a whole cigar box full of these PRICELESS ANTIQUE ELECTRONIC ITEMS just looking for a qrp project. Now I can at least have the idea that I can cobble up a proximity detector. Maybe I can use that for the front end of a proximity keyer. Fascinating!

W1REX Rex Harper "The Tinman"

Date: Tue, 20 May 2003 14:00:38 -0400
From: "Tom" <kf4yyd@adelphia.net>
To: "NJQRP" <njqrp@njqrp.org>, "qrp-1" <qrp-1@lehigh.edu>
Subject: [151025] SMD soldering nirvana????
Message-ID: <EIEBLEILGEEGMLHGH0AGOELDCFAA.kf4yyd@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just got this from the Basic Stamp mail server and wonder if any experts on the list can tell me if this is a valid method of soldering surface mount devices. If so it sure would make some of the new toys much easier to make. Here is a link:

http://www.seattlerobotics.org/encoder/200006/oven_art.htm

If this works as they say it does I'm running out to get me a toaster oven..

Tom kf4yyd

Date: Tue, 20 May 2003 13:17:48 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151026] RE: Several Antenna Questions
Message-ID: <90B09553A615CE4192A646D8CFA67DA81C8785@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

Dennis,

You got some good questions there -- you might start some arguments with = them! I could suggest these websites:

www.cebik.com
www.antennex.com

They have excellent articles. Here is my shot at answering these = questions.

1 AND 2) The advantage of larger diameter wire (or tubing versus wire) = is a wider bandwidth for a given antenna design at HF frequencies. The = advantage for #12 versus #18 wire is so small as to be negligible, = though. It is also possible to build a multi-band vertical out of wire = -- <http://www.arrl.org/members-only/tis/info/pdf/9511071.pdf>

-----Original Message-----

From: Dennis Payton [mailto:dpayton@fwi.com]
Sent: Tuesday, May 20, 2003 1:06 PM
To: Low Power Amateur Radio Discussion
Subject: Several Antenna Questions

Here are a few antenna questions that I'm currently seeking answers to. Knowledgeable help with any of them would sure be appreciated. They'll probably show that I've not taken any "Antennas 101" courses lately!

1.) Is there a performance advantage to building a vertical from tubing instead of wire? (I only operate at QRP levels.) If there isn't, then is = the only advantage to buying a commercial vertical its multiband capability = and durability? Is there much difference in efficiency between a long and a short vertical, or is it just bandwidth? For forty meters, I'm = wondering if a quarter wave vertical built using a \$100 DK9SQ mast will give me as = much or more efficiency than a \$300+ commercial vertical. Or if I could = spiral wind the mast and create a 1/2 wave, then use short counterpoises = instead of radials, and have a matching network at the base. Would an electronic = tuner at the base, or ladder line to my shack allow it to function as a = multi-band vertical that will work as well as any commercial antenna I could buy?

2.) I'm unable to have a permanent wire antenna, so I put up temporary = end fed wires and dipoles. Does wire diameter have a discernable affect on efficiency at QRP levels? I've got some "wire" about the same diameter =

as

dental floss that is actually several strands of strong fiber that are spiral wound with flat, durable metal. It solders easily, is almost indestructible, maintains its length, and is basically impossible to see.

And I've been using it almost exclusively. I'm wondering though, if its small diameter hurts my efficiency. (I asked this question before but = didn't

get it answered - just comments about the wire.)

3.) I'm told that my Cushcraft R7 vertical receives as well as it = transmits

because of the principal of reciprocity. If reciprocity is a fact = though,

then why is it sometimes advantageous to use separate TX & RX antennas?

Could it be that the TX antenna handles the signal better but has a = worse

signal-to-noise ratio? I've used my R7 with many different radios over = the y

ears under many different conditions and am used to struggling to hear a fellow operating 100 watts, although he easily copies my one watt, so = I'm

unconvinced of reciprocity.

4.) Is the saying, "Put up the highest and longest antenna that you = can,"

always true? If it is, then I wonder why I don't hear of anybody putting = up

a *really* long dipole. Maybe there's a point of diminishing returns = after

the first or second wavelength? Do fellows who use kites try to get as = much

wire as high as they can?

Thanks again for any help,

Denny Payton, N9JXY

Auburn, IN

Date: Tue, 20 May 2003 13:24:17 -0500

From: "Dave Sjolín" <sjolin@swbell.net>

To: <dpayton@fwi.com>,

"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [151027] Re: Several Antenna Questions

Message-ID: <0d2001c31efd\$076d5230\$78d1fea9@DaveSjolin>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "Dennis Payton" <dpayton@fwi.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, May 20, 2003 12:06 PM
Subject: Several Antenna Questions

> 3.) I'm told that my Cushcraft R7 vertical receives as well as it
transmits
> because of the principal of reciprocity. If reciprocity is a fact though,
> then why is it sometimes advantageous to use separate TX & RX antennas?
> Could it be that the TX antenna handles the signal better but has a worse
> signal-to-noise ratio? I've used my R7 with many different radios over the
y
> ears under many different conditions and am used to struggling to hear a
> fellow operating 100 watts, although he easily copies my one watt, so I'm
> unconvinced of reciprocity.

You may have a higher local noise level. Most electrical appliances and house wiring is at least somewhat vertically polarized. Therefore, your vertical is more likely to pick up line noise than would a dipole or beam or other horizontally polarized antenna. Move away from the house and prevent current down the outer sheild of your coax.

I have a Cushcraft R5 and I can say for a certainty that it transmits better than it receives on some bands, particularly ten meters. There have been several times that I have broken a SSB pileup for some DX in the western Pacific that I literally could not copy on the R5. For receive I would switch over to a ground mounted HF2V (80/40 vertical) where the DX was S3 or better. Since the HF2V is also vertical and located maybe 25-30 feet from the R5 I believe the Cushcraft antenna is just inherently noisier, perhaps because of that mystery box at the base.

Path reciprocity is true most of the time. There are occasions when because of the Ionosphere that its not. I can recall a station in Cyprus one night who was 40 db over S9 with most of the stations he was working . He was copying most of those calling him an S5 or lower. I gave him 40 over and he gave me an S3 and I was running one KW at the time and I know he wasnt running much more than that himself. Obviously his signal was propagating by a different path than my return signal.

> 4.) Is the saying, "Put up the highest and longest antenna that you can,"

> always true? If it is, then I wonder why I don't hear of anybody putting
up
> a *really* long dipole. Maybe there's a point of diminishing returns after
> the first or second wavelength? Do fellows who use kites try to get as
much
> wire as high as they can?

For 20 meters and up you can put an antenna up too high for some propagation
paths. That is reason the big gun contesters have stacks of beams at
different heights. For 160, 80 and 40 meters is often not possible to get an
antenna up a half wave length much less higher.

Once you are up over 120 feet, there is typically not much improvement to be
seen by going higher except for ground wave propagation such as on VHF/UHF.

Most people dont put up really long dipoles because its easier to get
antenna gain by putting up a beam or other array. Some however do put up
rhombics and that means a lot of wire but not in straight line.

73 de Dave, N0IT

Date: Tue, 20 May 2003 14:26:18 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [151028] Re: SMD soldering nirvana????
Message-ID: <5.1.1.6.1.20030520141612.00a7b7a0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:00 PM 5/20/2003 -0400, you wrote:

>I just got this from the Basic Stamp mail server and wonder if any experts
>on the list can tell me if this is a valid method of soldering surface mount
>devices. If so it sure would make some of the new toys much easier to make.
>Here is a link:

>
> http://www.seattlerobotics.org/encoder/200006/oven_art.htm
>

>If this works as they say it does I'm running out to get me a toaster oven..

Tom,

It may take a few tries to get satisfactory results, but sure it'll work.

I knew some guys that built their own vapor-phase reflow tank, too. That process uses a tank with a heavy liquid (I want to think it's a Freon-like material) that is heated to the proper temperature to melt solder. A layer of hot vapor forms above the liquid in the tank, and the board (prepared the same way as described in this article) is lowered into the vapor. The vapor holds much more heat than air does, and transfers it to the board and solder more readily. Also, the vapor isn't as likely to wash over the board and knock parts loose.

The liquid used in these tanks is expensive, and in some cases I believe requires a hazmat permit to use. Probably not appropriate for hobbyist use.

A problem that early manufacturers of surface-mount boards encountered is "tombstoning," which affects 2-leaded components like chip caps and resistors. If one end doesn't have enough solder paste, or if the paste at one end liquifies before the other end, the surface tension will make the chip pop up and stand on end like a tombstone.

Dave

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Tue, 20 May 2003 13:37:55 -0500
From: "Boulineau, Lee" <lee.boulineau@attws.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151029] RE: Several Antenna Questions
Message-ID: <90B09553A615CE4192A646D8CFA67DA81C8786@TX-MSG05-CCC.wireless.attws.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
content-class: urn:content-classes:message

-----Original Message-----
From: Boulineau, Lee=20
Sent: Tuesday, May 20, 2003 2:18 PM
To: Low Power Amateur Radio Discussion
Subject: RE: Several Antenna Questions

Dennis,

You got some good questions there -- you might start some arguments with =
them! I could suggest these websites:

www.cebik.com

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They have excellent articles. Here is my shot at answering these =
questions.

1 AND 2) The advantage of larger diameter wire (or tubing versus wire) =
is a wider bandwidth for a given antenna design at HF frequencies. The =
advantage for #12 versus #18 wire (as an example) is so small as to be =
negligible, though. It is also possible to build a multi-band vertical =
out of wire -- <http://www.arrl.org/members-only/tis/info/pdf/9511071.pdf> =
(ARRL members only) shows a design built around a tree but Walter's mast =
might work also; 10m=3D393.7 inches =3D~33 feet. You could use a brass =
brazing rod as a stinger to get the full length needed for 40m . Use =
16-20 radials with it and you should get good performance.

3) Polarization is one reason to use separate RX and TX antennas. 160m =
ops often use a vertical as a TX antenna, and switch to a random wire or =
a 80m dipole for RX. Vertically-polarized antennas pick up more =
atmospheric noise, so using a horizontally-polarized antenna makes sense =
for RX, but the vertical (when combined with the radials) is more =
efficient for TX. Therefore, reciprocity doesn't always hold. =20

4) Antennas that are electrically long for a given frequency can often =
have some strange side lobes and dead spots, but the general theme of =
"long and high" holds. Download MMANA (it's free), which is a great =
little antenna analysis package, and play around with the dipole models. =
Set up a 40m dipole, and model the response on 40, 20, 15, and 10 meters =
and you will see some of this behavior. Also, model a 1/2, a 3/2, a =
5/2, and a 7/2 wave dipole for 20 or 40 meters and observe the changes =
in pattern.

73 de N4MVL Lee

-----Original Message-----

From: Dennis Payton [mailto:dpayton@fwi.com]

Sent: Tuesday, May 20, 2003 1:06 PM

To: Low Power Amateur Radio Discussion

Subject: Several Antenna Questions

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Knowledgeable help with any of them would sure be appreciated. They'll probably show that I've not taken any "Antennas 101" courses lately!

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Thanks again for any help,

Denny Payton, N9JXY
Auburn, IN

Date: Tue, 20 May 2003 15:12:30 -0400
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [151030] AT Sprint mod parts
Message-ID: <3.0.6.32.20030520151230.007b6a80@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

AT Sprinter's,

I have a good stock of the 10K and 10 ohm chip resistors in 1206 size,
which will work fine. If you need them, let me know all will send them out,
no charge of course. Everyone should do the 10K pull up mod, I haven't
looked to see what Monty did with the 10 ohm, but we'll send it anyway.

I also have a decent supply of the diodes used in the QSK limiter. If you
think you have IMD problems, will send you a set of these to add also. This
shouldn't be a problem for most people, mostly just the few kits which went
to the EU, or if you live near a strong broadcast station.

The headphone jack is wired to put stereo phones in series. By making or
using an addaptor to put the right and left phones in parallel, will give
you more volume, as is covered in the instructions. If you have the
oscillation or squelling problem AA1MY talked about, this might be solved
my making the 10 uF, C16 cap larger, say 47 uF or even 100 if you can find
one small enough to fit. This cap by-passes the 5 volt supply to the audio

op amp. It just may take a little experimentation on the type of headphone used. Apparently, some work better than others..

I've been getting reports about all the exotic DX you guys are working with this little rig, keep it up :-)

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Tue, 20 May 2003 15:15:54 -0400
From: <tlogan7@cox.net>
To: qrp-1@Lehigh.EDU
Subject: [151031] Tuner for DSW-II
Message-ID: <20030520191600.NYLC18769.fed1mtao04.cox.net@smtp.west.cox.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

In those odd times when you might be in the field and not have a resonant antenna (don't ask me why), what do (or would) many of you use as a antenna tuner for the DSW-II? Does the little Emtech fit the bill? Any observations are appreciated. 73/
Tim

Date: Tue, 20 May 2003 15:35:34 -0400 (EDT)
From: "n2cx" <n2cx@voicenet.com>
To: kd1jv@moose.ncia.net
Cc: qrp-1@lehigh.edu, njqrp@NJqrp.org
Subject: [151032] Re: AT Sprint mod parts
Message-ID: <200305201935.h4KJZYc22026@email1.voicenet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1

Steve,

Wow, what service!

I have to hand it to you, guy, this is one neat little rig.

The mods from Monte are important though I've not suffered any problems since so far I'm using a wimpy 9-volt battery to power the rig.

My old eyes and shaky hands were tamed sufficiently to get through the project. Quite nicely done.

Mine is assembled though not yet boxed and receiving quite well. No time so far to do more with it until my travel slows down. The irony is that I want to use it as a travel rig!

Those of you who missed this will surely kick themselves!

You wrote:

AT Sprinter's,

I have a good stock of the 10K and 10 ohm chip resistors in 1206 size, which will work fine. If you need them, let me know all will send them out, no charge of course. Everyone should do the 10K pull up mod, I haven't looked to see what Monty did with the 10 ohm, but we'll send it anyway.

<SNIP>

72,
Steve, KD1JV
"Melt Solder"
White Mountains of New Hampshire
<http://www.qsl.net/kd1jv/>

Date: Tue, 20 May 2003 15:43:13 -0400
From: "sslyon" <sslyon@megalink.net>
To: <tlogan7@cox.net>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151033] Re: Tuner for DSW-II
Message-ID: <000801c31f08\$0d618480\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

There are lots of very good reasons for going to a non-resonant antenna, not the least of which is performance. Check out the diff. between an EDZ and a Dipole, for instance. Of course, I'm very partial :)

The ZM-2 and other variations on the Z-Match theme are just about the best you can do for a lightweight tuner. To get more efficiency, you've got to go to something like a Johnson Match Box.

73

aa1my

Seabury & Sharon Lyon
99 Sparrowhawk Mtn Rd
Bethel ME, 04217 U.S.A.
207-836-2576

Virus Protection by Norton and ZoneAlarm

----- Original Message -----

From: <tlogan7@cox.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Tuesday, May 20, 2003 3:15 PM

Subject: Tuner for DSW-II

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>

End of QRP-L Digest 2926
